Construction News

PRICE CHANGES AND THE BUSINESS OUTLOOK

For the fall of a Presidential year, this one seems to be without precedent. Ordinarily business drops way below normal, the stock market is down, and everybody is on edge wondering who is to be our next President. This year business is going on in unabated volume, the stock market is having one of the busiest sessions ever known, and the question of our next President seems to have no effect whatever upon the general prosperity. The stock market still continues to do a heavy volume of business and prices, while not at the high record mark of the year, are still higher, particularly in the coppers and industrials, than they were previous to Sept. 1.

Gains of over 15 millions in total reserves and in net member bank deposits, and the large increase in the amount of acceptances held by the Federal Reserve Bank are indicated by the weekly bank statement issued by the Federal Reserve Board at the close of business on Oct. 27. Gold reserves show an increase for the week of 15.7 millions; aggregate gold holdings of the system, including the amount held by the Federal Reserve agents against notes issued, are now $617,481,000, a gain of nearly $125,000,000 for the last six months, and of over $192,000,000 for the last year.

The metal market is still continuing to show strength with the possible exception of antimony, which has dropped in New York during the past six months from 39c. a pound down to 13c., all other metals showing a slight increase over a month ago, particularly tin, which has advanced 2½c. and is now selling for 42c. Babbit metal has shown a drop in the past six months of about 10c. a pound on the best grade and 5c. on the commercial. Excitement in the pig-iron trade has been running very high for the past two weeks. On every hand signs are observable of consumers trying to protect requirements over all of next year. Price advances were sharp and to some extent were induced by bids submitted by consumers. A long expected burst of activity in pig iron has now arrived. Primarily a sudden upshoot in the coke situation brought the heavy buying of pig iron to the fore, but the heavy foreign absorption of iron filling up the gaps between production and consumption was the underlying factor. Virginia furnaces have been the chief sellers during the past week, while Buffalo furnaces made a special drive on last half 1917 business, taking orders for about 100,000 tons at about $19.50 for No. 2X before discontinuing selling. Bessemer iron sold repeatedly at $26 valley and at the close of the week sellers were holding for $30 valley. Basic iron sold at $22 valley and Virginia iron at $21.50 furnace. All these advances in price of pig iron mean still further increases in price of steel. The volume of business that is now in the market is estimated at a total of more than 1,200,000 tons. Of this aggregate domestic consumers are seeking about 400,000 tons of steel in various forms for delivery early next year. Foreign shell steel negotiations account for about 600,000 tons and miscellaneous foreign and domestic business makes up the balance. Bids were opened on Oct. 26 for four battleships and 20 destroyers, in which the Fall River Shipbuilding Corporation, of Quincy, Mass., was low on the battleships, and the Bath Iron Works, of Bath, Maine, was low on the 20 torpedo-boat destroyers. Railway equipment business continue one of the best features of the market. Inquiries for over 20,000 cars are now in the market. Last week contracts for 3,756 cars and 1,500 underframes were placed. One Pennsylvania mill accepted orders for 100,000 tons of steel from carbuilders, while October car orders are expected to total about 19,000, it was indicated that November business will be even larger. Orders for 58 locomotives were placed last week, while the month's business will reach an aggregate of close to 1,500 locomotives, a record-breaking month's total, due largely to the Russian order for 1,000 engines.

Steady increases in the shortage of cars on the railroads, accompanied by a corresponding decrease in the total surpluses for the month of September, are shown in the report of the Committee on the Relations Between Railroads of the American Railway Association, which was made public about ten days ago. This indicates that the carriers are facing one of the most serious shortages in the history of railroading, and bears out the complaints which are being made by the interior and Southern States, that they are unable to get back their equipment when it is passed to the Eastern roads. The increase in car shortage is general in all classes of equipment throughout the country, and figured by classes of cars as follows:

Box car surplus	12,863	Shortage	45,879
Flat car surplus	1,687	"	3,653
Coal and gondola	5,640	"	25,512
Miscellaneous	4,811	"	7,446
Not classified	1,200	"	4,730
	26,201		87,222

That conditions will not be as serious as last winter is generally believed as a result of better coördination among the carriers. The condition last year was not foreseen in time to permit the framing of any definite rules on the handling of freight. Since that time the roads have refused to accept goods for shipment except upon permits based upon contracts with steamship companies for space. Although construction work is falling off due to the lateness of the season, there is more work under way at present than there has been for a number of years, and the outlook is very good for the spring of 1917.

IRON AND STEEL

Pig Iron—Below are the present quotations, with a comparison of a month and a year ago:

	Nov. 2, 1916	One Month Ago	One Year Ago
CINCINNATI			
No. 2 Southern foundry	$18.90	$17.40	$15.40@15.90
No. 2 Northern foundry	21.76	20.26	16.51@16.76
NEW YORK			
No. 2X Northern foundry	21.50@22.50	19.50@19.75	16.25@16.75
No. 2 plain Northern foundry	21.00@21.50	19.25@19.50	15.75@16.25
No 2 Southern foundry†	21.50@22.00	19.50@19.75	16.75@17.00
BIRMINGHAM			
No. 2 Southern foundry	16.00	14.50	13.00@13.50
CHICAGO			
No. 2 Northern foundry	22.00@22.50	18.50	15.25@15.50
PITTSBURGH			
Bessemer iron*	24.95	22.95	16.95
Basic iron*	20.95	19.95	15.95

*These prices include the freight charge from the valley to the Pittsburgh district. †Delivered tidewater, New York.

Sheets—Quotations are in cents per pound in various cities from warehouse, also the base quotation from mill:

Blue Annealed	Large Lots, Pittsburgh	St. Louis	Chicago	San Francisco	New York Nov. 2, 1916	New York 1 Year Ago
No. 10	3.15	3.55	3.50	5.00	4.25	2.25
No. 12	3.15	3.60	3.55	5.05	4.30	2.30
No. 14	3.00	3.65	3.60	5.10	4.35	2.35
Black						
Nos. 18 and 20	3.20	3.80	3.70	5.15	3.80	2.55
Nos. 22 and 24	3.25	3.75	3.75	5.24	3.85	2.60
No. 26	3.30	3.80	3.80	5.34	3.90	2.65
No. 27	3.35	3.75	3.85	5.43	3.95	2.70
No. 28	3.40	4.00	3.90	5.55	4.00	2.75
Galvanized						
No. 10	3.75	4.60	4.45	5.44	...	...
No. 12	3.85	4.60	4.45	5.49	4.50	3.65
No. 14	3.85	4.60	4.45	5.49	4.50	3.65
Nos. 18 and 20	4.15	4.60	4.65	5.75	4.90	3.90
Nos. 22 and 24	4.50	5.40	4.80	5.93	5.30	4.05
No. 26	4.45	5.40	4.95	6.08	5.45	4.20
No. 27	4.60	5.40	5.10	6.22	5.35	4.40
No. 28	4.75	5.40	5.25	6.37	5.75	4.50

Chain—Quotations below are per 100 lb.:

	New York Nov. 2, 1916	New York One Year Ago	Chicago	St. Louis	San Francisco
⅜	$10.10	$7.50	$9.90	$12.50	$13.50
½	7.55	4.95	7.35	9.00	9.75
⅝	6.55	3.95	6.35	7.50	8.50
¾	6.00	3.40	5.80	6.75	7.75
⅞	5.80	3.20	5.65	6.65	7.75
1 and 1⅛	5.60	3.00	5.50	6.50	7.50
1¼ and 1⅜	5.50	2.90	5.40	6.40	7.50
1½ and 1¾	5.40	2.80	5.30	6.25	7.25
1⅞ and 2	5.30	2.70	5.20	6.15	7.10
1 to 1¼	5.20	2.60	5.10	6.00	7.00

EXTRAS TO ABOVE LIST PER 100 LB.

	For BB	For BBB
⅜ in. and ¼ in	$1.50	$2.00
½ in. and larger	1.25	1.75

Pipe—The following discounts are for carload lots f.o.b. Pittsburgh:

Butt Weld

Steel Inches	Black	Galvanized	Iron Inches	Black	Galvanized
¾ to 3	69%	55½%	¾ to 1½	59%	43%
Lap Weld					
2	63%	50½%	1¼	46%	31%
2½ to 6	66%	53½%	1½	52%	38%
7 to 12	63%	49½%	2	53%	39%
13 and 14	63½%	....	2½ to 4	55%	42%
15	51%	....	4½ to 6	55%	42%
			7 to 12	54%	41%
Butt Weld, Extra Strong Plain Ends					
¾ to 1½	67%	54½%	¾ to 1½	60%	45%
2 to 3	68%	55½%			
Lap Weld, Extra Strong Plain Ends					
2	61%	49½%	1¼	48%	33%
2¼ to 4	64%	52½%	1½	53%	39%
4½ to 6	63%	51½%	2	55%	42%
7 to 8	59%	45½%	2¼ to 4	57%	45%
9 to 12	54%	40½%	4½ to 6	56%	44%
			7 to 8	50%	38%
			9 to 12	45%	33%

From warehouses at the places named the following discounts hold for steel pipe:

	Black New York	Black Chicago	Black St. Louis
¾ to 3 in. butt welded	63%	64.8%	64.64%
3½ to 6 in. lap welded	59%	61.8%	61.64%
7 to 12 in. lap welded	53%	58.8%	58.64%

	Galvanized New York	Galvanized Chicago	Galvanized St. Louis
¾ to 3 in. butt welded	47%	50.8%	50.14%
3½ to 6 in. lap welded	41%	48.8%	48.14%
7 to 12 in. lap welded	29%	44.8%	44.14%

Malleable fittings, Class B and C, from New York stock, sell at 30 and 5% from list price. Cast iron, standard size, 55%.

Freight Rates—On finished steel products in the Pittsburgh district, including plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized wire nails, rivets, spikes, bolts, flat sheets (except planished), chains, etc., the following freight rates are effective in cents per 100 lb.:

Baltimore	15.40	Minneapolis	32.90
Boston	18.90	New Orleans	30.70
Buffalo	11.60	New York	16.90
Chicago	18.90	Pacific Coast (all rail)	65.00
Cincinnati	15.80	Philadelphia	15.90
Cleveland	10.50	St. Louis	23.60
Denver	68.60	St. Paul	32.90
Kansas City	43.60		

Triangle Mesh—Price per 100 sq.ft. for 4 in-mesh in carload lots:

Style No.	Cross-Sec. Area per Ft. Width	Plain: New York	Plain: St. Louis	Plain: Chicago	Plain: San Francisco	Galvanized: New York	Galvanized: St. Louis	Galvanized: San Francisco
4	0.102	$1.53	$1.58	$1.61	$2 22	$1.74	$1 80	$2.43
5	0.077	1.21	1.25	1.27	1.76	1.38	1.42	1.93
6	0.058	.96	.99	1.01	1.39	1 09	1.13	1 52
7	0.041	.75	.77	.79	1.08	.85	.88	1.18
23	0.170	2.56	2.65	2.70	3 72	2.92	3.01	4.08
24	0.142	2.20	2.29	2.32	3.20	2.51	2.60	3.51
25	0.124	1.95	2.03	2.05	2.84	2 23	2.30	3 11
26	0.110	1.76	1.85	1.87	2.59	2.03	2.10	2.84
27	0.085	1.46	1.51	1.54	2 11	1.66	1 72	2.31
28	0.066	1.21	1.25	1.27	1.55	1.38	1.42	1.72
29	0.049	.99	1.04	1.04	1.45	1 13	1.18	1 59
31	0.261	3.76	3.91	3.96	5.48	4.29	4.44	6.01
32	0.225	3.27	3.39	3.44	4.75	3.73	3.85	5.21
33	0.196	2.91	3.02	3.06	4.24	3.32	3.43	4 65
34	0.140	2.24	2.32	2.36	3.25	2.55	2.64	3.56
35	0.109	1.78	1.85	1.87	2 59	2.03	2.10	2.84
36	0.075	1.31	1.37	1.38	1.91	1.50	1.55	2.09
38	0.380	5.36	5.57	5.65	7.80	6.12	6.32	8 55
39	0.325	4.62	4.80	4.87	6.72	5.27	5.45	7 37
40	0.283	4.05	4.20	4.27	5 89	4.62	4 77	6.46
41	0.208	3.13	3.21	3.25	4 49	3.52	3.65	4.92
42	0.151	2.34	2.44	2 46	3.41	2.67	2.77	3.74
43	0.101	1.67	1.73	1.76	2 42	1.90	1.97	2.65

Less than carload lots this material is about 10% higher.

Rivets—The following quotations are per 100 lb.:

	Structural: Mill, Pittsburgh Nov. 2, 1916	Structural: Mill, Pittsburgh 3 Months Ago	Warehouse: New York	Warehouse: Chicago	Warehouse: St. Louis	Warehouse: San Francisco
¾ in. and larger.....	$4.00	$4.00	$5.25	$4.25	$4.30	$5.40
Cone Head Boiler						
¾ in. and larger.....	4.10	4.10	5.35	4.35	4.40	5.50
⅝ and 1½.....	4.25	4.25	5 50	4.50	4.55	5.65
½ and ⅜.....	4.60	4.60	5.85	4.85	4.90	6.00

Lengths shorter than 1 in. take an extra of 50c. Lengths between 1 in. and 2 in. take an extra of 25c.

Expanded Metal Lath—Prices per 100 yd. for painted are as follows to contractors:

Gage	Weight	Carload: New York Nov. 2, 1916	Carload: New York 6 Months Ago	Carload: Chicago	Carload: St. Louis	Carload: San Francisco
27	233	$18.00	$16.00	$15.59	$18 00	$16.00
26	250	19.00	17.00	16.50	19.00	18 25
25	300	20.00	18.00	18.50	....	19.75
24	340	21.00	19 00	19.50	21.00	21.00
22	450	24.00	22.00	22.00	....	24.50

About 10% additional for smaller quantities. For galvanized, New York, add $8, and $5 for toncan; and San Francisco, add $9 for galvanized and $3 50 for toncan.

Steel Sheet Piling—The following price is base per 100 lb. f.o.b. Pittsburgh, with a comparison of a month and a year ago:

Nov. 2, 1916	One Month Ago	One Year Ago
$2.60@2.70	$2.50	$1.55@1.60

Track Supplies—The following prices are base per 100 lb. f.o.b. Pittsburgh for carload lots, together with the warehouse prices at the places named:

	Mill, Pittsburgh Nov. 2, 1916	Mill, Pittsburgh One Year Ago	Chicago	St. Louis	San Francisco
Standard railroad spikes...	$2 65	$2.00	$3.25	$3.30	$4.20
Track bolts	3.25	2.10@2.25	5.25	Premium	4.90
Standard section angle bars	2.00	1.50@1.75	3.50	Premium	4.00

Nails—The following quotations are per keg from warehouse:

	New York Nov. 2, 1916	New York Three Months Ago	St. Louis	Chicago	San Francisco
Wire	$3.15	$3.15	$3.15	$3.05	$3.65
Cut	3.15	3.15	3.20	3.20	3.30

Structural Material—The following are the base prices f.o.b. mill, Pittsburgh, together with the quotations per 100 lb. from warehouses at the places named:

	Pittsburgh	St. Louis	New York	Chicago	San Francisco
Beams, 3 to 15 in.....	$2 70	$3.30	$3.35	$3 25	$4 25
Channels, 3 to 15 in.....	2.70	3.30	3.35	3.25	4.25
Angles, 3 to 6 in., ¼ in. thick..	2.70	3.30	3.35	3.25	4.25
Tees, 3 in. and larger.....	2 70	3.30	3.40	3.30	4.25
Plates	3.25	3.80	4.00	3.75	4.75

Extras on other shapes and sizes in cents per lb. are as follows:

I-beams over 15 in.....	.10
Angles over 6 in., on one or both legs.....	.10
Angles, 3 in. on one or both legs less than ¼ in. thick.....	.70
Cutting to lengths, under 3 ft. to 2 ft inclusive.....	.25
Cutting to lengths, under 2 ft. to 1 ft. inclusive.....	.50
Cutting to lengths, under 1 ft.....	1.55

Bars, Concrete Reinforcing—The following quotations are per 100 lb:

In.	Mill Shipment	Warehouse: New York Nov. 2, 1916	Warehouse: New York One Month Ago	Warehouse: St. Louis	Warehouse: Chicago	Warehouse: San Francisco
¾ and larger...	$2.60	$3 35	$3.35	$3.24	$3.25	$4.00
⅝	2.65	3.45	3.45	3.29	3.30	4 10
½	2.70	3 50	3.50	3.34	3.40	4.20
⅜	2.85	3.75	3.75	3.49	3.50	4.50
¼	3 10	4.10	4.10	3.74	3.75	5.00

Twisted bars, 10c. extra. Cutting, 2 ft. and over, 15c. per 100 lb. extra.

Steel Rails—The following quotations are per 100 lb. f.o.b. Pittsburgh and Chicago for carload or larger lots. For less than carload lots 5c. per 100 lb. is charged extra:

	Pittsburgh	Chicago
Standard bessemer rails.....	$33.00	$33 00
Standard openhearth rails.....	35.00	35.00
Light rails, 8 to 10 lb.....	50.00	43.00
Light rails, 12 to 14 lb.....	49.00	42.00
Light rails, 25 to 45 lb	47.00	40.00

Old Material—The prices following are per gross ton paid to dealers and producers in New York. In Chicago and St. Louis and vicinity, the quotations are per net ton and cover delivery at the buyer's works, including freight transfer charges:

	New York Nov. 2, 1916	New York One Month Ago
Heavy melting steel scrap.....	$12.25@12.50	$11.75@12.00
No. 1 railroad wrought.....	20 25@20.50	19.75@20 00
Stove plate	12.00@12.50	11.50@12.00
No. 1 machinery cast.....	17.00@17.50	15.75@16 00
Machine shop turnings.....	6 25@ 6 50	5.00@ 5.25
Cast borings	8.00@ 8.25	7.00@ 7.50
Railroad malleable cast.....	12.00@12.50	12.00@12.50

	Chicago Nov. 2, 1916	Chicago One Month Ago
No. 1 railroad wrought.....	$18 00@18.50	$16.50@17.00
Stove plate	10.75@11.25	9 75@10.25
No. 1 machinery cast.....	14.75@15.25	12.25@12.75
Machine shop turnings.....	6 00@ 6 50	5.50@ 6.00
Cast borings	7.25@ 7.75	6.50@ 7.00
Railroad malleable cast.....	13.50@14 00	11.50@12.00

	St. Louis Nov. 2, 1916	St. Louis One Month Ago
Heavy melting steel scrap.....	$18.50@19.00*	$17.50@18.00
No. 1 railroad wrought.....	18.25@18.75†	18.00@18.50
Stove plate	11.50@12.00†	10.75@11.00
No. 1 machinery cast.....	13.25@13.75†	13.00@13.50
Machine shop turnings.....	6.00@ 6.25†	7.25@ 7.50
Cast borings	6.25@ 6.50†	8.25@ 8.50
Railroad malleable cast.....	13.00@13.50†	12.75@13.00

*Gross ton. †Per net ton.

Wire Rope—Discounts from list price on bright and galvanized are as follows:

	New York Nov. 2, 1916	New York Six Months Ago	St. Louis	Chicago	San Francisco
Galvanized 20-2½%	35-2½%	20-2½%	25-2½%	20%	
Bright 30-2½%	35-2½%	30-2½%	30-2½%	30%	

At this rate the net prices in New York for galvanized, 7 wires to strand, are as follows per 100 lb.:

Diameter, In.		Diameter, In.	
½	$4.40	1¼	$18 30
⅝	5.90	1⅜	20 80
¾	6 60	1½	23.60
⅞	9.50	1⅝	27.80
1	11.00	1¾	32 20

Cast-Iron Pipe—The following are prices per net ton for carload lots:

	New York	Birmingham	Chicago	St. Louis	San Francisco
4 in.	$34.50	$29.00	$34.50	$35.00	$40.00
6 in. and over...	31.50	26.00	31.50	32 00	37.00

Gas pipe and 16-ft. lengths are $1 per ton extra.

CEMENT, BRICK AND STONE

Paving Stone—

New York	Manhattan	$2.40 sq yd.
	Other boroughs	2.20 sq yd.
Chicago	About 4x8x4 dressed.....	2.15 sq yd.
	About 4x8x4 common.....	1.75 sq.yd.
San Francisco	Basalt block 4x7x8.....	57.50 per M

Flagging—

New York	Bronx	$0 17 sq.ft.
	Manhattan	.17 sq.ft.
	Queens .....5 ft. square	.18 sq.ft.
Chicago	18 in. wide.....	.60 lin.ft.

Crushed Stone—Price for cargo or carload lots is as follows:

	1½ In.	¾ In.
New York	$0.90	$1.00
Chicago	.95	.95
St. Louis	1.00	1.00
San Francisco	1.00	1.00

Sand and Gravel—Price for cargo or carload lots is as follows:

	Gravel: Paving	Gravel: 1½ In.	Gravel: ¾ In.	Sand	
New York	$1.25	$1.00	$1 10	$0.50	per cu.yd.
Chicago	1.25	1 00	1.00	bank .75	per cu.yd.
St. Louis	....	.70	.70	.60	per cu.yd.
San Francisco	....	1.00	1.00	1.00	per cu.yd.

Brick—The price per 1,000 in cargo or carload lots is as follows:

	Common: Nov. 2, 1916	Common: Six Months Ago	Paving: Brick	Paving: Block
New York	$7.75	$8.50	$19.50	$26.50
Chicago	6.00	6.25	15.00	23.00
St. Louis, salmon.....	7 00	6.00	....	....
St. Louis, selected red.....	10.00	....	....	17.50
San Francisco	10.00	9.00	....	35.00

Curbing—Prices per linear foot are as follows:

New York	5x16	$0.40
	5x20	.45
Chicago	6x18	.45
St. Louis	5x16	.68
San Francisco	5x16	.75
	5x20	.85

Portland Cement—These prices are for barrels in carload lots exclusive of bags:

	Nov. 2, 1916	One Month Ago	One Year Ago
New York	$1.77	$1.72	$1.62
Jersey City	1.60	1 60	1.56
Boston	1.92	1 92	1.77
Chicago	1.86	1.86	1.66
Pittsburgh	1.81	1.81	1.76
Cleveland	1.94	1.94	1.80
Detroit	1.95	1.95	1.75
Indianapolis	1 99	1.99	1.79
Toledo	1.99	1.99	1.79
Milwaukee	1.98	1.98	1.83
Minneapolis	2.13	2.13	1.93
Duluth	2.06	2.06	1.91
Peoria	1 98	1.98	1.74
Cedar Rapids	2.09	2.09	1.85
Davenport	2.04	2 04	1 75
St. Louis	1.85	1 85	....
San Francisco	2.30	2 30	....

MISCELLANEOUS

Sewer Pipe—The following prices are in cents per foot for carload lots:

Size, In.	New York Nov. 2, 1916	New York One Year Ago	St. Louis	Chicago	San Francisco
3	.0725	.05	.....	.0625	.06
4	.0725	.05	.....	.0625	.08
5	.12	.08	.....	.10	.10
6	.12	.08	.0825	.10	.12
8	.165	.11	.135	.1375	.18
10	.24	.16	.18	.20	.27
12	.30	.20	.245	.25	.3375
15	.405	.27	.35	.3375	.....
18	.57	.38	.525	.475	.675
20	.675	.45	.70	.5625	.875
22	.90	.60	.84	.75	$1.05
24	.975	.65	$1.00	.8125	1.25
27	$1.665	$1.35	1.30	....	.....
30	2.035	1.65	1.70	....	.....
33	2 625	2.20	2.25	....	.....
36	2.94	2 45	2.50	....	.....

Clay Drain Tile—The following prices are per 1,000 lin.ft.:

Size, In.	New York Nov. 2, 1916	New York Six Months Ago	St. Louis	Chicago	San Francisco
3	$23.00	$22.50	$16.00	$15.00	$24.50
4	32.45	32.50	18.00	18.00	31.50
5	45 00	47.50	25.00	23.00	45.50
6	56.55	57.50	35.00	27 00	63.00
8	98.50	97.50	65.00	55.00	105.00

Asphaltum—Price per ton in packages:

	Brand	
New York	Mexican	$19.50
Chicago	Mexican	22.00
San Francisco	California	11 50

Railway Ties—For fair-size orders, the following prices per tie hold:

	Material	7 In. by 9 In. by 8 Ft. 6 In.	6 In. by 8 In. by 8 Ft.
New York	Yellow Pine	$1.07	$0.92
St. Louis	No. 1 White Oak	.72	.61
Chicago	.....	.95	.85
San Francisco	Douglas Fir	.78	.53
San Francisco	Creosoted	1.39	.96

Poles—Price of Western red cedar poles is as follows:

	New York	Chicago	Denver	St. Louis
6 in. by 30 ft	$4.77	$4.07	$3.41	$4.07
7 in. by 30 ft	5.90	5.10	4.30	5.10
7 in. by 45 ft	7.85	6 85	5.90	6 85
8 in. by 35 ft	9.75	8.50	7.30	8.50
7 in. by 40 ft	9.95	8.65	7.40	8.65
8 in. by 40 ft	11.25	9.65	8.15	9.65
*8 in by 45 ft	14.45	12.45	10.55	12.45
*8 in. by 50 ft	16.85	14.45	12.15	12.45

*10c. higher freight rates on account of double loads.

Hollow Tile—Hollow building tile price per block in cents:

	New York Nov. 2, 1916	New York Six Months Ago	Chicago	St. Louis	San Francisco
4x12x12 in.	.075	.0625	064	.054	.07
6x12x12 in.	.104	.0875	.092	.066	.095
8x12x12 in.	.1266	.106	.108	.09	.12
10x12x12 in.	.149	.125	.127	.15	.18
12x12x12 in.	.1875	.156	.146	.18	.20
Fireproof partition blocks price per block in cents:					
3x12x12 in.	.054	.042	.044	.036	.065
2x12x12 in.	.054	.042	043	.024	.055
4x12x12 in.	.061	.047	.047	.048	.07
6x12x12 in.	.081	.063	.064	.066	.095
8x12x12 in.	108	....	.087	.085	.12

Above prices are for carload lots or more.

Flue Lining—The following quotations are in cents per foot for carload lots at the places named:

	New York Nov. 2, 1916	New York Six Months Ago	Chicago	St. Louis	San Francisco
4½x 8½ in.	10.80	9.10	12.00	11.00	12.00
4½x13 in.	14.40	11.70	16 00	15.00	18.00
8½x 8½ in.	14 40	12.60	16.00	14 00	16.00
8½x13 in.	21.60	16.90	20.00	18.00	22.00
8½x18 in.	31.40	23.40	32.00	28 00	30.00
13 x18 in.	27.60	31.20	42 00	40.00	40.00
18 x18 in.	54.00	52.00	55.00	60.00	....

Wood Block Paving—

Chicago	4 in. block 16 lb. treatment	$2.05 sq yd.
St. Louis	4 in. block 16 lb. treatment	1.46 sq yd

Lumber—Price per M in carload lots:

Timbers—Rough.—Chicago: Square Edge and Sound Green

	20 Ft. and Under	22-24 Ft.	26 Ft.	28 Ft.	30 Ft.	32 Ft.
3x 4 to 8x 8	$24.00	$26.00	$27.00	$27.00	$28.00	$28.00
3x10 to 10x10	26.00	28.00	27 50	28 00	29.00	29.00
3x12 to 12x12	28.50	29.50	30.50	30.50	31.50	31.50
3x14 to 6x14	30.50	31.50	32.50	32.50	33.50	33.50
7x14 to 14x14	30.50	31.50	32.50	32.50	33.50	33.50
3x16 to 6x16	32.50	33.50	35.50	35.50	37.50	37.50
7x16 to 16x16	32.50	33.50	35.50	35.50	37.50	37.50
3x18 to 18x18	35.50	36.50	38.50	38.50	40.50	40.50
8x18 to 18x18	35.50	36.50	38.50	38.50	40.50	40.50
4x20 to 20x20	38.50	39.50	40 50	41.50	43.50	43.50

Southern Pine—New York:

3x 4 to 8x 8	27.00	28.00	29.00	29.00	30.00	30 00
3x10 to 10x10	28.00	29.00	30.00	30.00	31.00	31 00
3x12 to 12x12	32.50	33.50	34.50	34.50	35.50	35 50
3x14 to 6x14	34.50	35.50	36.50	36 50	37.50	37.50
7x14 to 14x14	34.50	35.50	36.50	36.50	37.50	37.50
3x16 to 6x16	36.50	37.50	39 50	39.50	41.50	41.50
7x16 to 16x16	36.50	37.50	39.50	39.50	41.50	41.50
3x18 to 18x18	39 50	40.50	42.50	42.50	44 50	44.50
8x18 to 18x18	39.50	40.50	42.50	42.50	44.50	44.50
4x20 to 20x20	42.50	43.50	45.50	45 50	47.50	47.50

Yellow Pine—St. Louis:

	20 Ft.	22 and 24 Ft.	26 Ft.	28 Ft.	30 Ft.	32 Ft.
3x 4 to 8x 8	$21.00	$22.00	$23.00	$24.00	$25.00	$26.00
3x10 to 10x10	22.00	23.00	24.00	25.00	26.00	27.00
3x12 to 12x12	23.50	24 50	25.50	26.50	27.50	28.50
3x14 to 6x14	25.00	26.00	27 00	28 00	29.00	30.00
7x14 to 14x14	25.00	26.00	27.00	28.00	29.00	30.00
3x16 to 6x16	27.00	28.00	29.00	30.00	31.00	32.00
7x16 to 16x16	27.00	28.00	29.00	30.00	31.00	32 00
3x18 to 18x18	29.00	30.00	31.00	32.00	33.00	34.00
8x18 to 18x18	29.00	30.00	31.00	32.00	33.00	34.00
4x20 to 20x20	33.00	34.00	35 00	36.00	37.00	38.00

Over 32 ft—Add $1 for each additional 2 ft. in length up to 40 ft. for sizes 12x12 and under; for sizes over 12x12 add $2. For merchantable add $2 to sizes 10x10 and under. For prime add $2 to the price of merchantable for all sizes.

Rough Douglas Fir, No. 1 Common—More than carload lots in San Francisco—ship's tackle:

Size in Inches	15 Ft. and Under	16 to 24 Ft.	25 to 32 Ft.
3 and 4x4	$15.00	$16.50	$17.50
3 and 4x6 and 8	15.00	15.50	16.50
6x6 to 8x8	15.50	16.50	16.50
3 and 4x10	15.00	16.50	17.50
6 and 8x10	16 00	17.00	17.00
10x10	16 00	16 00	18.00
3 and 4x12	15.00	16.50	17.50
6 and 8x12	16.50	17.50	17.50
10 and 12x12	16.00	16.00	18.00
3 and 4x14	16.00	18.00	19.00
6 and 8x14	17.50	18.50	18.50
7 and 9x14	18.50	19 50	19.50
10 and 12x14	17 00	17 00	19.00
14x14	16.00	16.00	18.00
3 and 4x16	17.00	19.50	20.50
6 and 8x16	19.00	20.00	20.00
7 and 9x16	20.00	21.00	21.00
10 and 12x16	18.00	18.00	20.00
14 and 16x16	16 00	16.00	18.00
3 and 4x18	18.00	21 00	23.00
6 and 8x18	19.50	22.00	22.00
7 and 9x18	20.50	23.00	23.00
10 and 12x18	19.00	19.00	21.00
14 and 16x18	17.00	17.00	19.00
18x18	18.00	18.00	20.00
3 and 4x20	20.00	22 50	24.50
6 and 8x20	21.50	24 00	24.00
10 and 12x20	20.00	20.00	22.00
14 and 16x20	18.00	18.00	20.00
18 and 20x20	19.00	19.00	21.00

MISCELLANEOUS METALS

Miscellaneous Metals—The present quotations in cents per pound with a comparison of practically a month and a year ago are as follows:

	New York Nov 2, 1916	New York One Month Ago	New York One Year Ago
Copper, electrolytic (carload lots)	29.00	28.50	18.25
Tin	42.00	39.50	36.75
Lead	7.00	7.00	5.00
Spelter	11.00	9.00	14.00
ST. LOUIS			
Lead	7.00	7.00	5.00
Spelter	11.00	9.00	14 00

Old Metals—The following are the dealers' purchasing prices in cents per pound:

	New York Nov. 2, 1916	New York One Month Ago	New York One Year Ago	Cleveland
Copper, heavy and crucible	24.75	21.75	15.00	25.00
Copper, heavy and wire	24.00	20.75	14.75	24.50
Copper, light and bottoms	20.50	17 50	13 00	21.50
Lead, heavy	6.10	5.00	3 75	6.25
Lead, tea	5 50	4.50	3.50	4.75
Brass, heavy	13.75	12.50	10.00	14.50
Brass, light	10.75	10.00	8.25	11.75
No. 1 yellow road brass turnings	14 50	13.75	10.75	14.25
Zinc	6.50	6 25	8.00	7.25

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

New York—Buffalo & Williamsville Electric Ry., Williamsville, petitioned by residents of Akron to extend line from Williamsville to Akron. L. L. Grove, Williamsville, Gen. Mgr.

New York—Erie R.R. (Susquehanna Division), plans to improve lines in Hornell. About $75,000. R. S. Parsons, 50 Church St., New York, Ch. Engr.

Virginia—Norfolk, Washington & Yorktown Railroad Co. plans line from Hampton Roads via Yorktown, Va., to connect with Richmond, Fredericksburg & Potomac Ry., about 85 or 90 mi. Address H. Wolcott, Atty., Norfolk.

Virginia—Roanoke Railway and Electric Co., Roanoke, plans extension to Viscoe Silk Mill. J. W. Hancock, Roanoke, Gen. Mgr.

South Carolina—Charleston & Summerville Interurban Railway Co. plans line from Charleston to Summerville, S. C., about 22 mi. J. L. David, Pres.

Mississippi—Biloxia Vegetable and Fruit Growers' Association plans line from Biloxi to Ocean Springs, 8 mi. W. A. Reno, Biloxi, Pres.

Tennessee—Nashville, Chattanooga & St. Louis Ry. plans extension from Alton Park line to Flintstone, Ga., about 5 mi. H. McDonough, Nashville, Ch. Engr.

Michigan—Michigan Ry., Kalamazoo, plans to relay its track on South Washington St. from tracks of Grand Trunk Ry. to Ridge St. J. F. Collins, Jackson, Gen. Mgr.

Ohio—Bd. of Commerce of Lorain plans electric railway to connect residential and business districts with new industrial center on East Side. C. M. Osborne, City Engr.

Ohio—Dover, Millersburg & Western Ry. plans line from Dover to Millersburg. D. F. A. Wheelock, Woodward Bldg., Warren, Penn., Engr.

Ohio—Ohio R.R., Dayton, applied to Pub. Utilities Comn. for permission to issue $10,000 bonds for improvements. H. Gebhart, Dayton, Gen. Mgr.

Indiana—Pennsylvania Lines West of Pittsburgh plans line from Vandalia to Panhandle, 50 mi., also extension of New Cumberland branch of Panhandle R.R. to mouth Racoon Creek on Ohio River. T. Rodd, Pittsburgh, Ch. Engr.

Illinois—Kankakee & Urbana Traction Co., Urbana, plans line from Paxton to Kankakee. W. J. Soffell, Urbana, Gen. Mgr.

South Dakota—Mitchell & Northwestern Ry making surveys for line from Mitchell to Highmore through Davis, Aurora, Jerauld, Buffalo, Hand and Hyde Counties, about 100 mi. E. R. Tillinghast and W. L. Bruce, Mitchell, interested. Noted Oct. 19.

Missouri—Kansas City, Ozark & Southern Ry. plans extension south from Ava to develop timber lands. E. O. Skelton, Ava., Ch. Engr.

Arkansas—Hope Lumber Co. plans 10 mi. standard-gage railway from Hope to timber lands. T. Field, Hope, Pres.

Arkansas—Railroad Com., Clarksville, plans interurban electric railway from Clarksville to Hagarville, Silex and other points.

Texas—Interstate Electric Corporation of New York has taken over electric traction lines in San Angelo and will spend about $125,000 for improvements.

Oklahoma—Atchison, Topeka & Santa Fe Ry. plans extension south from Lindsay to Ringling, about 45 mi. C. F. W. Felt, Chicago, Ch. Engr.

Idaho—Santa & Western Railway Co. incorporated with $25,000 capital stock to build 15 mi. railway from Marsh Station on line of Chicago, Milwaukee & St. Paul Ry. to Santa. F. A. Blackwell of Blackwell Lumber Co., Cœur d'Alene, Interested.

Washington—Great Northern Ry. plans to electrify about 300 mi. main line from Spokane to Seattle and other mountain divisions. A. H. Hogeland, St. Paul, Minn., Ch. Engr.

Washington—Great Northern Ry. plans to improve terminal yards and build roundhouse at Leavenworth. About $150,000. A. H. Hogeland, St. Paul, Minn., Ch. Engr.

Washington—Puget Sound Traction, Light and Power Co., Seattle, granted franchise by Bd. Pub. Wks. to relay tracks on Lakeside Ave. and East Sprague St. W. B. Donaldson, Seattle, Pur. Agt.

Oregon—California & Oregon Coast R.R. sold $2,000,000 bonds for line from Wilderville to Waldo, 45 mi., which will be section of line from Grants Pass, Ore., to Crescent City, Calif. G. W. Boschke, Ch. Engr. Noted Mar. 2.

California—Pacific Electric Ry. plans to double-track and pave portion 4th St., Santa Ana. About $21,000. J. McMillan, Pacific Electric Bldg., Los Angeles, Gen. Mgr.

California—Sacramento Valley Electric R.R. plans line from Dixon to Woodland. M. Dozier, Jr., San Francisco, Gen. Mgr.

California—San Francisco-Oakland Terminal Rys., Oakland, plans line on San Pablo Ave. from Grand Canyon Park up San Pablo Canyon to new dam of Peoples Water Co., 6 mi. W. R. Alberg, Oakland, Gen. Mgr.

Ontario—Toronto Suburban Railway Co. granted permission by Ontario Railway Bd. to extend tracks from Bathurst St. east along Davenport Rd. down Poplar Plains Rd., Toronto. G. C. Boyce, West Toronto, Gen. Mgr. Noted Sept. 28.

Bids In and Contracts Awarded

Pennsylvania—Philadelphia & Westchester Traction Co. let contract grading, masonry and roadway work on lines through Upper Darby to W. J. TORRINGTON, Weightman Bldg., Philadelphia.

Virginia—Southern Ry. let contract grading for 8 additional tracks, Monroe terminal yard, Monroe, to LANGHORNE & LANGHORNE, Lynchburg.

Ohio—Pennsylvania Lines West of Pittsburgh let contract improving yard at Bradford to J. B. HALL, Indianapolis. About $1,000,000. Noted Sept. 28.

LIGHT, HEAT AND POWER

Proposed Work

Vt., Montpelier—Addison Electric Power Co. recently incorporated with capital stock of $500,000 plans power station on Leicester River.

Mass., Boston—City making plans for power plant. Wells & Dana, 29 Central St., Arch.

Conn., Winsted—Winsted Gas Co. plans electric power plant on Coggins and Foskett properties.

N. Y., New York—(Bronx)—Interborough Rapid Transit Co. plans power house on 139th St. near Alexander Ave. About $40,000. George H. Pegram, Engr.

N. J., Atlantic City—Breakers Hotel making plans for 1-story, 28x30-ft. addition to boiler plant. About $5,000. Smith & Henderer, Sheen Bldg., Arch.

N. J., Woodbury—City Council plans electric light plant.

N. C., Mocksville—See item under "Water-Works."

Tenn., Memphis—Bd. City Comrs. receiving bids Nov. 14 for purchase of $1,500,000 bonds for electric-light plant. J. H. Weatherford, City Engr. Noted June 15.

Ky., Murray—City election in November to vote on bonds for electric-light plant. Noted Mar. 30.

Mich., Allegan—See item under "Water-Works."

Ohio, Lowellville—Republic Railway and Light Co., Sharon, plans extensive improvements to power station at Lowellville.

Ohio, Russellville—City receiving bids Nov. 4 for electric-light system. L. P. Hanselman, Clk.

Ill., Berwyn—City receiving bids Nov. 7 for lighting system. About $15,000. Noted July 13.

Wis., Burlington—Wisconsin Gas and Electric Light Co. plans to extend transmission line to south shore of Brown's Lake.

Wis., Wilton—Wilton Light and Power Co. making plans for hydro-electric plant.

Minn., Arlington—City plans improving electric-light plant and extending transmission lines. M. C. Meffert, Clk.

Minn., Hopkins—City votes Nov. 7 on $30,000 bonds for gas plant.

Minn., Jeffers—City making plans for electric-light system.

Kan., Altoona—City making plans for electric-lighting system and improving water system. About $22,000. Riley & Hardman, Parsons, Engr.

Kan., Independence—City Council plans election to vote on bonds for electric-light and power plant.

Kan., Viola—City Council granted franchise to Sumner Light and Power Co. to supply electricity for 20 years. Transmission line to be erected from Wellington to Viola.

Neb., Beatrice—City defeated $25,000 electric-light bonds. H. M. Garrett, Clk. Noted Sept. 28.

Neb., Dunbar—City plans electric-light plant. Wilbur W. Anness and Cliff C. West, interested.

Neb., Ft. Calhoun—City Council plans street lighting system. Transmission line to be erected from Douglas County line to Ft. Calhoun.

S. D., Clark—City Council considering franchise to install electric-light system. About $30,000.

N. D., Towner—T. K. Strand making plans for electric-light plant.

Tex., D'Hanis—City plans electric-light plant.

Tex., Thornton—Thornton Business Club considering plans for electric-light plant and ice factory.

Tex., Victoria—C. H. Kellam, San Antonio, granted franchise for gas-manufacturing plant. Noted Aug. 24.

Okla., Oklahoma—Blue Power Co. making plans for hydroelectric plant. John Martz, Seward, Neb., Mgr. and Supt.

Wash., Pe Ell—North Coast Power Co., Centralia, plans distribution system. About $15,000. B. C. Condit, Ch. Engr.

Ore., North Bend—Oregon Power Co. authorized to erect new 11,000 volt transmission line between C. A. Smith Mill and company's substation at Porter. About $18,000. F. C. Burke, Supt.

Calif., Portola—Walker Copper mine plans power plant.

Bids In and Contracts Awarded

N. H., Gorham—Tivin State Gas and Electric Co., Masonic Bldg., Dover, let contract 1-story addition to power station to J. M. SWAN & SON, St. Johnsbury, Vt.

Mass., North Andover—Brightwood Manufacturing Co. let contract boiler house to E. A. PEABODY & SON, Bay State Bldg., Lawrence.

Mass., Peabody—City let contract improving electric-light plant to MARK E. KELLEY CO., 70 Beckett St., Boston. About $40,000. Noted Mar. 9.

Penn., McKeesport—Duquesne Light Co. let contract substation to D. T. RIFFLE, Keenan Bldg., Pittsburgh.

Ohio, Akron—Northern Ohio Traction Co. let contract 1-story, 60x120-ft. substation to R. G. McKEE, 1301 Rockerfeller Bldg., Cleveland. About $20,000.

Ind., Martinsville—Home Lawn Sanitarium Co. let contract 2-story power house to C. F. DUNCAN, Martinsville.

Ill., Germantown—City let contract electric-light plant to F. MINNEO, New Baden, and CONRAD LEONARD, Germantown. Noted Oct. 12.

Ill., Joliet—City let contract substation to ADAMS CONSTRUCTION CO., 111 West Washington St., Chicago. About $35,000.

Iowa, Grinnell—Grinnell Electric & Power Co. let contract for power station to C. E. ENNIS, Toledo. About $200,000. Noted Sept. 7.

Minn., Buhl—City let contract addition to power plant and installing boilers to RICH-RALEY CO. About $31,000.

Wash., Keyport—City received low bid for power plant from Booker, Kiehler & Whipple, Central Bldg., Seattle, about $46,000.

Calif., San Francisco—City Electric Co. let contract substation on Bush St. to G. P. W. JENSEN, about $37,000. Noted Apr. 27.

BRIDGES

Proposed Work

N. J., Flemington—New York & Long Branch R.R. plans rein.-con. bridge over Manasquan River. G. O. Waterman, 143 Liberty St., New York, Secy. and Treas.

Penn., Philadelphia—Bureau of Surveys making plans for rein.-con. and steel bridges. C. Albright, City Engr.

Penn., Wilkes-Barre—(Official)—Luzerne County receiving bids Nov. 9 for bridge over tracks of Lackawanna & Valley R.R., connecting Ann Ave. and Poplar St., Plains Township. Paxson & Morgan, Second National Bank Bldg., Wilkes-Barre, Engr.

W. Va., Beckley—Raleigh County plans steel or concrete bridge, about $8,000. Address County Clk., Beckley.

W. Va., Elm Grove—Ohio County Comrs. plan rebuilding Monument Bridge.

W. Va., Logan—Logan County, Logan Dist., receiving bids Nov. 11 for bridges. J. B. Wilkenson, Jr., Logan, Deputy County Clk.

W. Va., Morgantown—State Rd. Bureau, W. Va. University, receiving bids Nov. 11 for 6 rein.-con. bridges.

W. Va., New Martinsville—Wetzel County receiving bids Nov. 11 for concrete bridge.

W. Va., New Martinsville—Wetzel County receiving bids Nov. 17 for bridges in Church, Clay, Magnolia, Grant, Center Dists. S. A. Myers, New Martinsville, County Clk.

N. C., Greenville—Comrs. Pitt County plan concrete bridges over Horse Shoe and Mill River Rds. P. F. Patton, Greenville, Superv.

Ga., Albany—Dougherty County Jury recommended new bridge over Flint River. Address County Clk., Albany.

Ga., Americus—Sumter County Comrs. receiving bids Dec. 11 for bridge across Flint River at Huguenins Ferry. Noted Aug. 24.

Ga., Rome—City voted $5,000 bonds for Silver Creek Bridge. H. T. McCray, City Engr. S. S. King, Supt. Pub. Wks. Noted Oct. 19.

Fla., Chattahoochee—Gadsden County election Dec. 5 to vote on $30,000 bonds for bridge over Appalachicola River. Address County Clk., Quincy.

Ala., Dothan—Houston County receiving bids Dec. 4 for bridge across Omussee Creek on Columbia and Gordon Rd. W. R. Koonce, Dothan, County Engr.

Miss., Jackson—Bd. Supvr. receiving bids Nov. 8 for bridge over Smith Creek on Clinton-McRaven Rd. W. W. Downing, Clk.

Ky., Mayfield—Comrs. Graves County plan to build several bridges under supervision State Highway Dept. R. W. Wiley, Frankfort, Comr.

Ky., Wickliffe—Ballard County Comrs. plan to build several bridges under supervision State Highway Dept. R. W. Wiley, Frankfort, Comr.

Ky., Whitesburg—Letcher County plans to rebuild bridge over Kentucky River at Tolson. Address County Clk., Whitesburg.

Ohio, Cleveland—City, Baltimore & Ohio Railroad Co. and officials U. S. War Dept. plan bridge over Auglaize River. R. Hoffman, City Engr. R. N. Begien, Baltimore, Ch. Engr. R.R.

Ohio, Cleveland—City receiving bids Nov. 18 for bridge work per report No. 3952. R. Hoffman, City Engr.

Ohio, Dayton—Montgomery County Comrs. receiving bids Nov. 9 for bridges on New Troy Pike and Springfield Rd., Butler Township. Walter G. Azling, Clk.

Bridges (Continued)

Ohio, Lorain—City making plans for approach to proposed bridge over Black River. C. M. Osborne, City Engr.

Ohio, Tiffin—Seneca County receiving bids Nov. 4 for Honey Creek Bridge No. 29 in Bloom Township; also No. 146 in Eden Township.

Ind., Terre Haute—Vigo County received only 1 bid for bridge in Fayette Township. Work to be readvertised.

Ind., Washington—Daviesa County receiving bids Nov. 9 for Jones Bridge; concrete bridge in Washington Township, and repairing Witmore Bridge. J. G. Clark, Washington, County Audr.

Mich., Detroit—(Official)—Eastern Washtenaw Good Rds. Dist. receives bids in January for viaduct over Huron River and tracks of Michigan Central R.R. on Whitmore Lake Rd. About $45,000. J. J. Cox, University of Michigan, Ann Arbor, Engr. Noted Sept. 28.

Ill., Dundee—City plans bridge on Main St. About $30,000 or $40,000.

Ill., McHenry—Nunda Township Highway Comrs. voted to build concrete bridge at foot of Haines Hill on McHenry-Crystal Lake Rd.

Ill., Sheridan—Northville, Mission and Serena Townships, La Salle County, plan bridge over Fox River. About $15,000. G. Farnsworth, Ottawa, Engr.

Wis., Hager—City to vote Nov. 7 on $45,000 bridge bonds.

Wis., Rice Lake—City election Nov. 7 to vote on proposition to build rein.-con. bridge over Red Cedar River on Main St. J. H. A. Brahtz, Mankato, Minn., Consult. Engr. Noted June 29.

Iowa, Des Moines—(Official)—City receiving bids Nov. 29 for bridge over Des Moines River on Grand Ave. K. Kastberg, City Engr. Noted Oct. 5.

Iowa, Rock Rapids—Lyon County soon receive bids for 16 bridges. About $70,000. Address County Clk., Rock Rapids.

Minn., Royalton—Morrison County plans new bridge over Mississippi River at Royalton. About $30,000. Address County Clk., Little Falls.

Minn., Sargent—City plans election to vote on $125,000 bridge bonds.

Minn., Two Harbors—See item under "Streets and Roads."

Kan., Ottawa—Franklin County receiving bids Nov. 6 for concrete abutments for Geiger Bridge across Hickory Creek in Peoria Township. J. F. Preshaw, Ottawa, County Clk.

Kan., Topeka—City making plans for rein.-con. bridge over Ward Creek. A. R. Young, City Engr.

Neb., Gering—Scotts Bluff County voted $65,000 bridge bonds. J. H. Ferguson, Gering, County Clk. Noted Sept. 28.

Neb., Scotts Bluff—Scotts Bluff County voted $65,000 bridge bonds. Address County Clk., Scotts Bluff. Noted Sept. 28.

Wyo., Arvada—Sheridan County receiving bids Nov. 8 for improving bridge across Powder River. J. J. Withrow, Arvada, County Clk.

Mont., Hardin—Big Horn County election Nov. 7 to vote on $57,500 bonds for bridge over Big Horn River. J. E. Graham, Hardin, County Engr.

Mont., Missoula—Missoula County plans election to vote on $20,000 bonds for bridge at Missoula and Bonner. Address County Clk., Missoula.

Mo., Warrensburg—Johnson County to let contract for bridges and culverts in December.

Tex., Llano—See item under "Streets and Roads."

Tex., Waco—City plans bridge over Waco Creek on Austin St. and 1 over Riverside Driveway on Barrons Branch. About $25,000. G. B. Gunley, City Engr.

Okla., Ada—Pontotoc County, Ada, and Pottawatomie County, Tecumseh, plans bridge over South Canadian River. About $30,000.

Okla., Bristow—City receiving bids Nov. 8 for steel bridge between Sect. 5 and 8, township 18. D. Beardsley, Chn.

Okla., Cheyenne—Roger Mills County election Nov. 7 to vote on $100,000 bridge bonds. Address County Clk., Cheyenne.

Okla., Perry—Noble County receiving bids Nov. 6 for 3 steel bridges and culverts in Billings. W. T. Faris, Perry, County Clk.

Okla., Poteau—Leflore County, Kennedy Township, election Nov. 7 to vote on proposition to build bridge over Nigger Creek.

N. Mex., Chaperito—(Official)—San Migueo County receiving bids Oct. 16 for steel bridge over Gallinas River at Chaperito. Address Clk., Las Vegas. Noted Oct. 12.

Wash., Aberdeen—See item under "Streets and Roads."

Wash., Okanogan—See item under "Streets and Roads."

Wash., Seattle—See item under "Streets and Roads."

Ore., Salem—(Official)—Coos County receiving bids Nov. 15 for bridge and viaduct over Coquille River near Myrtle Point. About $18,000. J. Weaver, Salem, Asst. Engr. Bridges. Noted June 1.

Calif., Bakersfield—Bd. Superv. Kern County receiving bids Nov. 9 for bridges on Division 10, Bakersfield-Mojave Rd. I. L. Miller, Bakersfield, Clk. Bd.

Calif., Santa Ana—Bd. Superv. receiving bids Nov. 9 for concrete bridge at Balboa Palisades.

Calif., Santa Barbara—Santa Barbara County receiving bids Nov. 6 for rein.-con. bridge on State Highway line between Stations 104 and 105. Address County Clk., Santa Barbara.

Calif., Ventura—City receiving bids Nov. 9 for rein.-con. bridge in Saticoy Township. J. B. McCloskey, City Clk.

Que., Montreal—Montreal Tramways Co. plans overhead bridge on Fortification Lane. J. E. Hutcheson, Montreal, Gen. Mgr.

Ont., Guelph—County plans rein.-con. bridge. About $35,000.

Ont., Toronto—Canadian Pacific Ry. plans bridge over ravine east of new station. A. D. MacTier, Montreal, Gen. Mgr. Eastern lines.

Ont., Toronto—City plans 700-ft. rein.-con. bridge on Dundas St., Halton County. Bowman & Connor, Toronto, Consult. Engr.

Bids In and Contracts Awarded

Mass., Lawrence—(Official)—Lawrence Bridge Comn. let contract waterproofing and protection of approximately 70,000 sq.ft. of surface of Central Bridges over Merrimack River to GOFF-WELLS CONSTRUCTION CO., Lawrence, about $14,995. Noted Oct. 12.

N. Y., Buffalo—City received low bid reconstruction, renewal and protection of viaducts on several streets of city from Strobel Steel Construction Co., Babcock St., $44,923; Elk St.-Abbott Rd. Viaduct, $333,274; Hamburg St. viaduct, $45,245. Noted Oct. 5.

N. Y., Buffalo—City received low bid bascule bridge over Buffalo River on Abbott Rd. from Great Lakes Dredge and Dock Co., $18,325. Noted Oct. 26.

N. J., Jersey City—(Official)—City let contract repairing 13th St. viaduct to OLTMER IRON WORKS, Hoboken, about $35,000. Noted Oct. 5.

N. J., Jersey City—(Official)—Hudson County received low bids steel bridge with concrete retaining wall at Woodcliffe, North Bergen, from W. J. Coughlin, $51,700; F. W. Schuriers, $61,711; C. S. Edwards Co., $61,987. Noted Oct. 5.

Penn., Pottsville—Philadelphia & Reading Ry. let contract rein.-con. bridge to EASTERN STEEL CO., Pottsville.

W. Va., Princeton—Mercer County let contract bridge over Brush Creek to VIRGINIA BRIDGE AND IRON WORKS, Roanoke, about $5,000.

Fla., Arcadia—De Soto County let contract bridge and causeway across Charlotte Harbor between towns of Charlotte Harbor and Punta Gorda to STAMM & SON, St. Petersburg, about $90,000. Noted Sept. 21.

Fla., Miami—Dade County let contract 5 concrete bridges to LUTEN BRIDGE CO., York, Penn., about $11,936.

Ky., Covington—Kenton County let contract steel highway bridge over Horse Branch on Covington and Independence Turnpike to OREGONIA BRIDGE CO., Lebanon, Ohio.

Ohio, Cincinnati—Cincinnati, Hamilton & Dayton R.R., Carew Bldg., let contract repairing bridges to VARGG CONSTRUCTION CO., Cumberland, Md., about $18,000.

Ohio, Cincinnati—Hamilton County let contract bridge on Independence Pike to OREGONIA BRIDGE CO., Lebanon, about $6,000.

Mich., Benton—City rejected bids for viaduct on Britain Ave. Noted Sept. 28.

Ill., Bloomington—University of Illinois let contract bridge to A. BIRT and J. P. McGARRY, about $7,977.

Ill., Bloomington—McLean County let contract 4 bridges in Yates Township to PORTER & McCULLY, Mackinaw, $10,690. Noted Oct. 12.

Ill., South Wilmington—City let contract 2 bridges over Mason Creek between South Wilmington and East Brooklyn, Greenfield Township, to JOLIET BRIDGE AND IRON CO., Joliet. About $8,900.

Wis., Edgerton—City let contract bridge over Saunders' Creek on Swift St. to L. ADLER, Edgerton.

Wis., Milwaukee—A. Trostel & Son, Commerce St., let contract trestle approach and scale pit to A. MONSTED CO., Pabst Bldg., about $15,000.

Iowa, Oskaloosa—Mashaska County let contract 17 bridges to H. E. WHITLOCK, Beacon. About $15,999.

Iowa, Rockwell City—City let contract bridge to IOWA BRIDGE CO., Des Moines, about $7,892.

Minn., Moorhead—Clay County let contract for 11 bridges to E. J. FENNELLY, Aitken. About $7,050.

Tex., Ft. Worth—C. T. Hodge, Ft. Worth, at $37,858, low bidder Allen Ave. Viaduct. Noted Oct. 5.

Okla., Chandler—Lincoln County Comrs. let contract bridge to ROCHESTER BRIDGE CO., and H. G. OLESON. Bids for other 3 bridges rejected. Noted July 6.

Okla., Sallisaw—Sequoyah County let contract 3 bridges to BOARDMAN CO., Oklahoma, about $6,805. Noted Sept. 28.

Okla., Stillwater—City let contract bridge across Cimarron River to CANTON BRIDGE CO., Canton, Ohio. Noted Mar. 16.

Okla., Tulsa—City let contract bridge over Broken Arrow Bridge Creek to CANTON BRIDGE CO., Canton, Ohio.

Wash., Spokane—(Official)—City let contract concrete bridge over Spokane River on Post St. to OLSON & JOHNSON, Missoula, Mont., $32,880. Noted Oct. 12.

Ore., St. Valier—City let contract rein.-con. bridge to LA CIE BOYER, LTD., St. Valier. About $8,000.

Calif., Oroville—Butte County let contract 2 steel and 1 concrete bridge to O. A. PETER, Oroville. Noted Sept. 28.

Calif., Upland—City let contract bridge on 19th St. to R. E. MILLSAN, 322 Central Bldg., Los Angeles, about $5,620.

Calif., Ventura—Ventura County let contract concrete bridge over San Satonio Creek on Ojai Ave. to WILLIAM LEDBETTER & CO., 651 Pacific Electric Bldg., Los Angeles. About $6,240. Noted Oct. 5.

Que., Montreal—City let contract bridge over aqueduct canal to F. J. JAGO CO., about $78,000. Noted Aug. 31.

Que., Savage Mills—City let contract concrete bridge to C. J. DRYDEN CO., 1215 Green Ave., Westmount. About $4,560.

Ont., Lansdowne—Township Council let contract rein.-con. bridge to JOHN DONOVAN, Lansdowne.

Ont., Maidstone Cross—Essex County Council let contract 2 concrete bridges to W. J. WYATT, Cottam.

B. C., Victoria—Canadian Northern Pacific Ry. let contract bridge Selkirk Water to MacDONALD, NETTLETON & BRUCE CO., Vancouver.

WATER-WORKS

Proposed Work

Mass., Chicopee—City voted $12,000 bonds for water mains.

Mass., Fitchburg—Comrs. of Streets plans reservoir. A. W. F. Brown, Supt.

Mass., Roxbury—(Boston post office)—City rejected bids for pumping station. New bids.

Mass., Waltham—City plans improving water system.

N. Y., Albany—State plans 2 reservoirs on upper Hudson watershed. About $7,000,000. J. N. Kilbourn, Supt.

N. Y., New York—(Manhattan)—W. Williams, Comr. Water Supply, Gas and Electricity, Room 2351, Municipal Bldg., receiving bids Nov. 6 for 12-in. steel or w.-i. water main and appurtenances on Queensboro Bridge, also for hauling and laying connecting c.-i. mains in boroughs of Manhattan and Queens.

N. Y., Plattsburgh—City votes Nov. 7 on $25,000 bonds for improving water system. F. McKeefe, Supt.

N. Y., Silver Creek—Village Trustees plan filter plant.

N. J., Carlstadt—Hackensack Water Co. plans 23-in. water main from Hackensack to Carlstadt. L. W. French, Weehawken, Supt.

N. J., Irvington—City authorized making plans for water mains. Noted June 22.

Penn., Langeloth—Langeloth Town Site Co. plans filter plant.

Penn., McKeesport—City plans water system. D. M. White, Supt.

Penn., Germantown—City to install water main in portion Scotforth Rd.

Md., Takoma Park—City soon receives bids for 4,000,000-gal. reservoir. H. Stevens, Union Trust Bldg., Washington, Engr.

W. Va., Charleston—City plans water system. About $2,288,975.

N. C., Mocksville—City soon votes on bonds for water system and electric-light plant.

N. C., Wilmington—City plans to spend $20,000 for water mains. W. E. Merritt, Supt.

Ga., Dublin—City sold $30,000 filter-plant bonds. J. A. Kelley, Chn. Water and Light Comn. Noted Sept. 14.

Ga., Lithonia—City voted $35,000 bonds for water and sewer systems. Noted Sept. 21.

Ga., Madison—City voted $25,000 water bonds. G. W. Hubbard, Supt. Noted Aug. 17.

Ala., Reform—City plans water system. About $10,000.

La., Bogalusa—City sold $228,500 bonds for water system, sewers, street paving and schools. Noted Oct. 19.

La., Crowley—City soon to let contract for well and reservoir. About $30,000. Noted Oct. 5.

La., Shreveport—City to vote on bonds Nov. 14 for water system.

Water-Works (Continued)

Miss., Coffeyville—City receiving bids Nov. 14 for water system. Noted June 20.

Tenn., Nashville—City plans municipal water system and pumping station above Stone's River. About $1,750,000.

Ky., Lancaster—City voted $250,000 bonds for extending and improving water system. R. C. Anderson, Engr. Noted Sept. 28.

Ky., Newport—City making plans for filter plant. About $40,000. James Maher, Supt.

Ky., Versailles—City voted $20,000 bonds for water system.

Ohio, Alliance—City soon receives bids for addition to filter plant. About $120,000. L. A. Tonkle, Supt. Noted Aug. 17.

Ohio, Bellefontaine—City retained W. J. Sherman Co., Toledo, Ohio, as Consult. Engr. for improving water system. Noted Sept. 14.

Ohio, Columbus—City soon votes on $30,000 bonds for filter plant. A. O'Shaughnessy, Supt. Noted Aug. 17.

Ohio, East Youngstown—Water Dept. receiving bids Nov. 10 for 2 motor-driven centrifugal pumps. B. L. Miller, Supt.

Ohio, Marion—Marion Water Co. plans to extend mains on Neil Ave. P. Kelly, Supt.

Ohio, New London—Citizens voted $56,000 water-works bonds.

Ohio, Salem—City plans 1,100,587-gal reservoir. About $18,632.

Ohio, Salem—City plans improving filter plant. About $71,500.

Mich., Allegan—City to vote Nov. 7 on $6,000 bonds for water system and electric-light plant. M. O. Grice, Supt.

Mich., Ann Arbor—City plans extending water system. About $75,000. Reginald Spokes, Supt.

Mich., Detroit—City plans 10-mi. 48-in. water mains.

Mich., Flint—City making plans for water mains. W. L. Fisher, Supt. Noted Oct. 5.

Mich., Mendon—City soon to vote on bonds for water system. Noted Oct. 26.

Mich., Otsego—City soon receives bids for improving water system. About $30,000. Noted Oct. 12.

Mich., Plymouth—Village receiving bids Nov. 6 for 2 centrifugal-pumping units, motors, starting boxes, connecting pipe, etc.

Ill., Canton—City plans to improve pumping station. J. P. Gallagher, Supt.

Ill., Chicago—City receiving bids Nov. 4 for pumping station. W. R. Moorhouse, Comr. Pub. Wks.

Ill., Fisher—Village soon receives bids for water system. J. E. Pickens, Kankakee, Engr. Noted Sept. 21.

Ill., Galesburg—City Council passed ordinance for water mains in portion Lawrence Ave. T. H. Snowball, Supt.

Ill., Kewanee—City plans to spend $4,500 for water mains, and $10,000 for sewers. E. F. Ingham, Asst. Supt.

Ill., Mt. Morris—Village plans extending water mains in Sunset addition.

Ill., Quincy—City making plans for pumping station at head of Quincy Bay. About $85,900. W. P. Rushnell, Engr.

Ill., River Forest (Chicago post office)—City voted $7,000 bonds for water system. Karl M. Mitchell, River Forest, Supt.

Ill., Rock Island—City to install 3,000,000-gal. pump in reservoir. R. W. Sharpe, Supt.

Ill., Springfield—City soon votes on bonds for pumping station.

Ill., Waukegan—H. V. Finkelstein, Manufacturers' Terminal Co., presented commissioners with complete plans for filter plant. About $228,000. Noted June 15.

Ill., Wilmette—City Trustees plan water system, about $150,000. D. H. Maury, 1137 Monadnock Blk., Chicago, Consult. Engr.

Wis., Chilton—City to receive bids in March for water system. Noted Oct. 26.

Wis., Kenosha—City sold $90,000 water bonds. B. C. Brennan, Supt.

Iowa, Forest City—City plans voting on $15,000 bonds for reservoir and pumping station. J. O. Johnson, Supt.

Iowa, Grinnell—City to vote Nov. 15 on $10,000 water bonds. W. A. Hendry, Supt.

Iowa, Havelock—(Official)—City soon votes on bonds for water system. George Mick, Clk. Noted Sept. 28.

Iowa, West Burlington—City soon votes on bonds for water system. Noted Oct. 26.

Minn., Cambridge—City to vote on $15,000 water bonds. Noted Oct. 26.

Minn., Rochester—City made plans for water system. About $35,000. C. L. Pillsbury Co., Minneapolis, Engr. Noted Sept. 14.

Minn., St. Paul—City soon lets contract for c.-i. pipe, specials, sluice gates, gate valves and steel reinforcing high-service reservoir. About $400,000. G. O. House, Gen. Supt.

Neb., Beatrice—City defeated bonds for water system. About $25,000. J. R. C. Field, Supt.

Neb., Dunbar—City plans water system and electric-light plant.

Neb., Hastings—City soon receives bids for water mains and sewer. Noted Apr. 13.

Neb., Norfolk—City plans extending water system. J. A. Hueboxer, Supt.

Neb., Pender—City retained Grant & Fulton, 607 Security Mutual Life Bldg., Lincoln, to make plans for improving water system.

S. D., Milbank—City voted $25,000 bonds for filter plant. Noted Oct. 5.

N. D., Grand Forks—City election Nov. 7 on $25,000 bonds for filter plant. J. J. Smith, Supt. Noted Oct. 26.

Mont., Bozeman—City sold $305,000 water and sewer bonds. E. F. Rich, Supt.

Mo., Brookfield—City votes Nov. 21 on $63,000 bonds for water system. James W. Lacey, Supt.

Mo., El Dorado Springs—City voted $20,000 bonds for extending water system.

Tex., Port Arthur—City votes Nov. 7 on $180,000 bonds for water and sewer systems. D. K. Miller, Supt. Noted Oct. 12.

Tex., San Antonio—City plans reservoir. H. J. Weirhause, Supt.

Tex., Sherman—City made plans for 1,300,000-gal. reservoir at Fairview Water Station, North Sherman.

Okla., Cyril—City plans election to vote on bond issue for water system.

Okla., Frederick—City receiving bids Nov. 14 for water system. J. L. Morrow, Supt.

Okla., Lawton—City plans water system. W. W. Saper, Supt.

Okla., Morrison—City to vote Nov. 7 on $18,000 bonds for water system.

Okla., Oklahoma—City soon to let contract for 2,868 tons c.-i. pipe. J. W. Bennett, Supt.

Okla., Tulsa—City rejected bids for pumping station. New bids to be received Nov. 9. About $5,000. M. Y. McFarland, Act. Supt.

Okla., Yale—(Official)—City voted $15,000 water bonds. G. C. Dale, Pres. Bd. Trustees. Noted Oct. 19.

Colo., Granada—City to vote Nov. 7 on $25,000 water bonds.

Colo., Hudson—City to vote Nov. 7 on $10,000 bonds for water system.

Idaho, Fayette—City Council soon to vote on bonds for water system.

Idaho, Moscow—See item under "Sewers."

Ariz., Clifton—City plans water main from pumping station to Clifton. About $55,000.

Ore., Richland—City sold $15,000 water bonds. Noted Oct. 12.

Calif., Coalinga—City to vote in November on $100,000 bonds for water system. Noted Oct. 12.

Calif., Merced—Crocker-Huffman Land and Water Co. plans to spend $30,000 for 300,000-gal. steel tank and additional pumping station. H. A. Lage, Supt.

Calif., San Barbara—Water Comrs. plan 20,000,000-gal. reservoir. About $85,000. V. E. Tracey, Supt.

Calif., San Rafael—Marin County sold $3,000,000 water bonds. William Volge, San Rafael, County Audr.

Que., Levis—City to vote bylaw Mar. 1 for filter system, also concrete reservoir, 1,500,000-gal. capacity. About $15,000. Noted Oct. 26.

Que., St. Marc des Carriers—City plans water system.

Ont., Cornwall—City making plans for addition to pumping station. Bids soon to be received. About $20,000. Charles Lount, Supt.

N. B., St. John—City soon to receive bids for 3,000 ft. c.-i. pipe. About $30,000. David B. Doig, Supt.

Alta., Spirit River—Town Council plans well and pumps.

Bids In and Contracts Awarded

Mass., Braintree—City received low bid for 4-, 6- and 12-in. water pipe from A. Williams & Co., 27 Lowell St., Boston, about $9,197.

Mass., Braintree—Town received low bid for c.-i. pipe and hydrants in Union St. from A. C. Trojano. Noted Oct. 5.

N. Y., Elmira—(Official)—Water Bd. let contract electrically driven centrifugal pump, 7,500,000 gal., to ALLIS-CHALMERS MANUFACTURING CO., Milwaukee, Wis. Noted Oct. 12.

N. J., Atlantic City—(Official)—City let contract c.-i. high-pressure fire-service main to M. B. MARKLAND, Atlantic City. About $81,749. Noted Oct. 19.

N. J., Bay Head—City let contract pumping station and disposal plant to WHITING, TURNER CONSTRUCTION CO., Secton Bldg., Baltimore, Md. About $25,990.

Penn., Erie—City to lay 12-in. water main on 10th St. by day labor.

Fla., Havana—(Official)—Bd. Pub. Wks. let contract water system and electric-light plant to J. B. McCRARY CO., Atlanta, Ga. About $20,678. Noted Sept. 14.

Fla., Jacksonville—Bd. Trustees let contract pump to ALLIS CHALMERS MANUFACTURING CO., $39,960; fittings to FLORENCE MACHINE CO., c.-i. pipe to UNITED STATES CAST IRON PIPE AND FOUNDRY CO., valves to COLUMBIA IRON WORKS. Noted Sept. 14.

Tenn., Rogersville—City did not receive bids Oct. 10 for water and sewer systems as noted in Oct. 5 issue.

Ohio, Alliance—City let contract 6,000,000-gal. cross-compound pumping engine to WORTHINGTON PUMP AND MACHINERY CORPORATION, Snow Works, Buffalo, about $30,440. Noted Oct. 12.

Ohio, New Boston—City let contract water system to DRAVO CONSTRUCTION CO., Diamond Bank Bldg., Pittsburgh, about $125,000.

Mich., Flint—(Official)—City let contract excavating for filter plant to F. D. FRINK, Flint. Noted Oct. 12.

Mich., Mt. Clemens—(Official)—City to improve water system by day labor. About $10,000. Noted Oct. 19.

Ill., Joliet—(Official)—Bd. Local Impvts. received low bid for water main in portion Wilcox St. from Curtis & Tyndall, Joliet. Noted Oct. 19.

Wis., Monticello—City let contract extending water mains to C. H. PHILLIPS, Waupaca.

Wis., West Allis—Bd. Pub. Wks. let contract extending water mains in 50th, 68th and 77th Ave. to H. HOHENSEE, 965 27th St., Milwaukee, at $1.29 per lin.ft. Noted Oct. 26.

Iowa, Corning—City let contract for water system to MALEY & KEELY CONSTRUCTION CO., 503 Massachusetts Bldg., Kansas City, Mo., at $23,455.

Minn., Duluth—City let contract water main to D. R. BLACK & CO. About $5,396.

Minn., Kenyon—City let contract improving water system to WILLIAM C. FRASER, St. Paul. Noted Sept. 21.

Minn., Mankato—City rejected bids for extending water mains in May St. H. F. Blomquist, Supt. Noted Aug. 10.

Minn., Minneapolis—(Official)—City received low bids for 30,000,000-gal. motor-driven centrifugal pump from R. D. Wood Co., Allis-Chalmers Co., De Laval Co. Noted Oct. 12.

Minn., St. Paul—City received bid for rotary screens for water system from St. Paul Foundry Co., St. Paul, at $6,400.

Minn., West St. Paul—City let contract water system to THORNTON BROS., St. Paul. About $37,982. Noted Oct. 5.

Kan., Argonia—City let contract water system to CONKLIN MORTGAGE CO., Wichita. About $20,000. Noted Oct. 26.

Tex., Loraine—City let contract water system to J. E. JARRETT & CO., San Antonio. Noted Aug. 21.

Tex., Miami—(Official)—City let contract water system to MULLER-PARKER ENGINEERING AND CONSTRUCTION CO., Dallas. About $8,197. Noted Sept. 7.

SEWERS

Proposed Work

N. Y., Fredonia—City plans disposal plant. About $100,000. Frank C. Moor, City Engr.

N. Y., New York—(Manhattan)—M. M. Marks, Borough Pres., Room 2032, Municipal Bldg., receiving bids Nov. 10 for sewer in 188th St. and 189th St., between Wadsworth and St. Nicholas Ave.

N. Y., New York—(Manhattan)—M. M. Marks, Borough Pres., Room 2032, Municipal Bldg., receiving bids Nov. 10 for extension sewer in 172nd St. between Ft. Washington Ave. and Broadway.

N. J., Camden—City receiving bids Nov. 20 for sewers in portion of Magnolia Ave. L. E. Farnham, City Engr.

Penn., Harrisburg—City plans disposal plant. M. B. Cowden, City Engr.

Penn., Hazleton—See item under "Streets and Roads."

Penn., Penns Station—City votes Nov. 7 on $25,000 sewer bonds.

Penn., Pittston—Council passed ordinance for sewer in Bonita Way. J. F. Langan, City Engr.

Md., Butterton—City plans sewers and disposal plant. Kastenhuber & Anderson, Dover St., Easton, Engr.

Md., Towson—City made plans for sewer system. About $66,902. Norton, Bird & Whitman 1520 Munsey Bldg., Baltimore, Engr.

W. Va., Fairmont—City votes Dec. 15 on bonds for storm and sanitary sewers. S. B. Miller, City Engr.

Ga., Lithonia—See item under "Water-Works." Noted Sept. 21.

La., Bogalusa—See item under "Water-Works." Noted Oct. 19.

Ohio, Akron—City votes Nov. 7 on $500,000 bonds for sanitary sewer in Brittain St. J. A. Gehrea, City Engr. Noted Oct. 5.

Ohio, Bellefontaine—City plans extending sewers in various streets. About $6,500. Clair E. Inskeep City Engr.

Ohio, Cincinnati—City voted to install sewers in Queen Ave., White St. and Columbia Ave. Fred Schneller, City Clk.

Sewers (Continued)

Ohio, Cincinnati—City made plans for 8,250-ft. sewers. About $347,000. F. S. Krug, Ch. Engr.

Ohio, Elyria—City plans sewer in Middle Ave. C. N. Teobald, Engr.

Ohio, Elyria—Bd. Pub. Ser. receiving bids Nov. 6 for sewers in portion West River St. and Mussey Ave. M. M. Wilcox, Dir. Pub. Ser.

Ohio, Miamisburg—City votes Nov. 7 on $100,000 bonds for sanitary sewers.

Ohio, Newark—City passed resolution to improve sewer in portion West Main St. Charles H. Wells, City Engr.

Ohio, Piqua—Council passed resolution for storm sewer in Dist. No. 2. A. Schroeder, City Engr.

Ohio, Sidney—See item under "Streets and Roads."

Ind., Kokomo—Bd. Pub. Wks. receiving bids Nov. 16 for extending sewers in Loretta St. and Virginia Ave. Ben Haven, City Clk.

Mich., Detroit—City soon receives bids for sanitary sewer in Puritan and Wyoming Ave. About $10,000. R. A. Murdock, 508 Free Press Bldg., Detroit, Engr.

Mich., Ludington—City plans extending sewer system. George Clark, City Engr.

Mich., Redford—City defeated $100,000 sewer bonds.

Mich., Royal Oak—City making plans for sewer system. Bids to be received in spring. Mason L. Brown, 821 Chamber of Commerce Bldg., Detroit. Noted Mar. 23.

Ill., Havana—Bd. Local Impvts. plans to spend about $24,000 for sewers.

Ill., Kewanee—See item under "Water-Works."

Ill., Waukegan—City made plans for sewers. About $7,000. J. J. Dietmeyer, Comr. Pub. Wks.

Wis., Fond du Lac—City soon receives bids for sewers in Seumour, West 2nd, Emma, West Rees, West Division, Oak and South St. J. S. McCullough, City Engr.

Iowa, Boone—City soon lets contract for disposal plant. About $50,000. Robert McCormick, City Engr. Noted May 4.

Iowa, Emmetsburg—City receiving bids Nov. 6 for storm sewer.

Iowa, Fayette—City making plans sewer system. About $17,000. G. H. Bishop, City Hall, Engr.

Iowa, Knoxville—City plans sewer and sewage disposal plant. M. G. Hall, Engr.

Iowa, Rockwell City—Town Council plans disposal plant. F. E. Burnham, Town Clk.

Minn., St. Cloud—City plans to spend $18,000 for storm sewers.

Kan., Hanover—City making preliminary plans for sewer system. Black & Veatch, Inter-State Bldg., Kansas City Mo., Arch. Noted Sept. 28.

Kan., Manhattan—City soon votes on $13,000 bonds for storm sewers. F. Walters, Engr. Noted Mar. 23.

Neb., Hastings—See item under "Water-Works."

Neb., Red Cloud—City voted $20,000 sewer bonds. Bids to be received in November. Grant & Fulton, Banker's Life Bldg., Lincoln, Engr. Noted Oct. 12.

Mont., Big Timber—(Official)—City receiving bids Nov. 6 for sewer system. About $40,000. Gerharz-Jaqueth Engineering Co., First National Bank Bldg., Great Falls, Engr. Noted Oct. 19.

Mo., Sikeston—City election Nov. 14 to vote on $5,000 sewer bonds.

Tex., Kenedy—State Atty. General's Dept. approved $6,000 bond issue for sewer system.

Tex., Lockhart—City voted $35,000 sewer bonds.

Okla., Beggs—City soon votes on $18,000 sewer bonds. P. L. Brown, Pres. Bd.

Colo., Loveland—City plans sewer district on East Side.

Idaho, Nampa—City soon to vote on $15 000 sewer improvements bonds.

Idaho, Nezperce—City plans voting $30,000 bonds for sewers. Noted Sept. 14.

Ariz., Douglas—City plans storm sewer in Ave. A. About $30,000. George N. Wood, City Engr.

Wash., Seattle—Bd. Pub. Wks. plans sewers on West Halliday St. and 8th Ave. About $11,845. A. H. Dimock, City Engr.

Wash., Seattle—See item under "Streets and Roads."

Calif., Long Beach—City soon lets contract for pumps for Sewer Dist. No. 3. A. de Dulz, Engr.

Calif., San Francisco—See item under "Streets and Roads."

Bids In and Contracts Awarded

N. Y., Elmira—City let contract sewers in Erie and Morrow St. to McGREEVLY, McGREEVLY & BAUM.

N. Y., Kenmore—City let contract storm water sewers in Myron Ave. to F. J. MUMM & CO., Buffalo. About $17,000. Noted July 13.

N. Y., New York—(Bronx)—(Official)—D. Mathewson, Borough Pres., received low bids for sewers in portions Westchester Ave., from Santor Construction Co., 234 West 41st, $10,993; West 230th and 231st St., from Marrone & Bove, $11,421. Noted Oct. 19.

N. Y., Olean—City received low bids for Contract No. 2 for sewers and pumping station along Alleghany River and Olean Creek from Lord Construction Co., 105 West 40th St., New York. About $64,716.

N. J., Camden—City let contract sewer portion of Mulford St. to AARON WARD & SON, 524 Trenton Ave. Noted Oct. 12.

Penn., Bellwood—City rejected bids for sewer systems and sewage plant. H. Linton, 1717 13th St., Altoona, Engr. Noted Sept. 28.

Penn., Philadelphia—(Official)—Low bidders Contract No. 16, sewer in portion of Thompson St., (a) Design A, (b) Design B, were Keystone State Construction Co., 704-709 Pennsylvania Bldg., Philadelphia (a) $215,416, (b) $199,684; Lombardi & Perna, 600 Lincoln Bldg., Philadelphia, (a) $221,450, (b) $200,104; Adolph Jaffola, 139 S. 50th St., Philadelphia, (a) $237,095, (b) $241,945.

Penn., Wilkes-Barre—City let contract storm sewer in Kelley St. to DOMINIC GURNARI, 281 Miller St.

Tenn., Copperhill—(Official)—City let contract sewers to A. C. BROOKS, Birmingham. Noted Oct. 12.

Ky., Lexington—Bd. Comrs. let contract storm sewer to CAREY-REED CO., Lexington. About $43,089.

Ohio, Greenfield—City let contract sewer system and disposal plant to H. E. MILLER, 654 Kelton Ave. Noted May 4.

Ohio, Port Clinton—City received low bid sewers in Washington St. from C. L. Wright, Mt. Vernon. About $14,038. Noted Sept. 21.

Ohio, Sebring—City let contract 19th St. Sewer to W. W. WATSON.

Ohio, Springfield—City let contract Rose St. Sewer to P. J. GAFFREY, about $9,296.

Ohio, Springfield—City let contract sewers in Indiana, Franklin, Oakwood and Landsdown St. to M. J. COONEY. Noted Oct. 26.

Ill., Evanston—C. T. Bartlett Co., Evanston at $47,148, low bidder Greenleaf St. Sewer.

Ill., Springfield—City let contract sewer in Clear Lake Ave. to J. PATTESON. Noted June 8.

Wis., Appleton—City let contract sewer in John St. to J. H. WAITE.

Wis., Baraboo—City let contract sewer in Birch St. to S. EDWARD SCHADDE.

Iowa, Primghar—Town let contract sewer and disposal systems to SIOUX CITY CONCRETE PIPE CO. About $30,000. Noted Sept. 21.

Minn., Benson—City let contract sewer in 13th St. to EDWARD SANDMEYER.

Neb., North Platte—City let contract 6,000 ft. sewer to C. J. BURKE, Kearney.

Neb., Oxford—City let contract sewer to H. J. PETERSON, Omaha. About $10,822. Noted Oct. 12.

Tex., San Antonio—City let contract sewer in Sect. 34 to ELDER BROS., P. O. Box, 202, San Antonio. About $5,318.

Calif., Hermosa Beach—City Trustees received low bids for disposal and treatment plant from T. J. Shea, 2039 Oxford Ave., Los Angeles, $33,122; S. M. Kearns, Long Beach, $35,407; R. H. McCray, Los Angeles, $44,300. Noted Sept. 28.

GARBAGE

Proposed Work

N. Y., Syracuse—Council voted $10,000 bonds for incinerating plant. R. B. Williams, Jr., Comr. Pub. Wks. Noted Feb. 24.

Mo., St. Joseph—City granted franchise to James R. Page to collect and dispose of garbage in St. Joseph. Contractor and associates to install $130,000 plant for manufacture from garbage.

STREETS AND ROADS

Proposed Work

Maine, Augusta—State Highway Comn. rejected bids 3.7 mi. gravel road in Thomaston and South Thomaston.

Mass., Ashland—Bd. Selectmen rejected bids for gravel road in Ashland Ave.

Mass., Cambridge—City appropriated $63,000 for repaving, wood block, 9,000 sq.yd. in Cogswell Ave. and Pacific St.

Mass., Cambridge—City Council appropriated $27,500 for paving portion Massachusetts Ave. Bids soon to be received.

Mass., Springfield—City plans to widen Dwight St. F. H. Clark, City Engr.

N. Y., New York—(Brooklyn)—L. H. Pounds, Borough Pres., Room 2, Borough Hall, receiving bids Nov. 8 for improving portions Bay 19th, East 12th and 81st St., Caton, Thatford and 23d Ave., also for furnishing and delivering 1,000 cu.yd. broken trap rock and 1,000 cu.yd. trap rock screenings.

N. Y., New York—(Manhattan)—M. M. Marks, Borough Pres., Room 2032 Municipal Bldg., receiving bids Nov. 10 for improving portions 181st St.

N. Y., New York—(Manhattan)—F. J. H. Kracke, Comr. Bridges, Municipal Bldg., receiving bids Nov. 16 for improving southerly portion Manhattan Plaza of Manhattan Bridge.

N. Y., New York—(Queens)—M. E. Connolly, Borough Pres., 3d floor, Borough Hall, 5th St. and Jackson Ave., Long Island City, receiving bids Nov. 6 for improving portions various streets.

N. Y., Patachogue—Citizens voted $8,000 bonds for paving Ocean Ave.

N. Y., Silver Creek—Village plans to pave portion Burgess St.

N. J., Bordentown—City to improve 2nd St., macadam.

N. J., Flemington—Bd. Freeholders, Hunterdon County, plan new road from Clover Hill to Flemington-Lambertville macadam road.

N. J., Jersey City—City Comrs. plans improving portion Ocean Ave., wood block. A. Van Keuren, City Engr.

N. J., Kearney—Town Council plans improving Hickory St. with Warrenite. H. P. Kreimer, City Engr.

N. J., Keyport—(Official)—Bd. Freeholders, Monmouth County, receive bids about Jan. 3 for road from Keyport to Red Bank, warrenite with concrete base. About $65,000. G. D. Cooper, 120 Broad St., Red Bank, Engr. Noted Oct. 19.

N. J., Mt. Holly—Burlington County plans 9-mi. sheet asphalt in 1917. James Logan, Mt. Holly, County Engr.

N. J., Salem—Bd. Freeholders Salem County plan highway from Delaware River at Pennsgrove to Sharpstown and seashore resorts. Address Clk., Salem.

N. J., Toms River—Bd. Freeholders, Ocean County, to improve about 91 mi. roads. About $203,000. Address County Clk., Toms River.

N. J., Woodbury—Bd. Freeholders, Gloucester County, plan gravel road from Woodbury to Battlefield Park, about 2½ mi. N. C. Catell, Wenonah, Engr.

N. J., Woodbury—Bd. Freeholders, Gloucester County, plan 2-mi. concrete road from Paulsboro to Gibbstown. N. C. Catell, Wenonah, Engr.

Penn., Coatesville—(Official)—Council receiving bids Nov. 6 for 5,450-ft. macadam road with bituminous surface around shores Rock Run Reservoir. E. E. Stern, City Clk. A. Potter, Consult. Engr.

Penn., Erie—Council passed ordinance for paving portion 23d St. About $13,565. F. G. Lynch, City Engr.

Penn., Hazleton—City plans to spend about $50,000 for paving and sewers. B. A. Youngman, City Engr.

Penn., Kingston—(Wilkes-Barre post office)—Borough plans to improve number streets including Elm, Bridge, Ridge and Mott Ave. and Hoyt St.

Penn., McKeesport—City Council passed ordinance for improving portion of Irwin St.

Penn., Reading—City appropriated $100,000 for paving streets. E. Alrich, City Engr.

Va., Richmond—City plans to pave portion Chamberlayne Ave. About $75,000 available. C. E. Bolling, City Engr.

Va., Richmond—C. E. Bolling, City Engr., making plans for widening Pumphouse Dr.

W. Va., Chester—Hancock County making plans for road improvements, about $125,000. R. Hobbs, Clk., and E. C. Crafton, New Cumberland, Engr.

W. Va., Clarendon—Alexandria County Comrs. plan to spend $118,615 for roads in Washington Dist. and $171,660 in Arlington Dist., also road paralleling tracks of Washington-Virginia Ry., Mt Vernon Rd. with $20,000 State Aid, Glebe Rd., about $78,657 and Vacation Lane Rd. G. H. Rucker, Clarendon, County Clk.

W. Va., Elm Grove—Comrs. Ohio County, Wheeling, to rebuild National Rd. through Elm Grove. About $35,000 available. G. Steenrod, Wheeling, County Engr.

N. C., Burgaw—Pender County, Columbia Township, voted $25,000 road bonds. Address County Clk., Burgaw. Noted July 27.

N. C., Hamlet—City sold $50,000 street improvement bonds. J. S. Utter, City Engr. Noted Oct. 5.

N. C., Morganton—Burke County to build roads in Silver Creek, Lovelady, Leard, Upper Fork and Quaker Meadow Townships by day labor. About $100,000 available. Address County Clk., Morganton. Noted Oct. 26.

N. C., Raleigh—State Highway Comn. appropriated road funds for 1917 as follows: Person, Henderson, McDowell, Mecklenburg and Gaston Counties, $10,000; Wilkes County, $25,000; Madison County, $9,500; Rutherford County, $8,000; Catawba, Burke and Avery County, $5,000; Wilmington-Fayetteville Highway, $7,000.

N. C., Wilkesboro—Wilkes County soon receives bids for grading 250 mi. roads. About $250,000 available. R. T. Brown, Chapel Hill, and J. B. Roach, Statesville, Engr. Noted Sept. 28.

Ga., Louisville—Jefferson County voted $52,000 road bonds. Address County Clk., Louisville.

Ga., Statenville—Echols County plans road from Statenville to county line. Address County Clk., Statenville.

Ga., Valdosta—Lowndes County plans sand clay road from Valdosta to county line. Address County Clk., Valdosta.

Ga., Winder—Comrs. Barrow County plan election to vote on $65,000 road bonds. Address County Clk., Winder.

Fla., DeLand—Volusia County receiving bids Nov. 6 for improving highways in Halifax Special Rd. and Bridge Dist. Samuel D. Jordan, DeLand, County Clk. Noted Oct. 26.

Fla., Mayo—Lafayette County defeated $600,000 road bonds. Noted Sept. 28.

Streets and Roads (Continued)

Ohio, Niles—City let contract paving C St. to J. DEBUTE, about $9,000; Mill St., F. GEORGE, Leetonia, about $13,000. Noted Oct. 5.

Ohio, Norwood—City let contract paving Ridgeway Ave. to G. MURDOCK, 2531 Melrose Ave. Noted July 6.

Ohio, Osnaburg—Stark County Comrs. let contract paving Lincoln Highway to HAHN CONSTRUCTION CO., Canton. About $25,000.

Ohio, Portsmouth—City received low bid paving portion Kendall Ave. from Kelley Bros. Noted Oct. 19.

Ohio, Warren—Trumbull County let contract road Vernon Township to EVANS BROS., Hubbard, about $9,000.

Ind., Brazil—(Official)—Clay County received no bids for stone and gravel road on line between Posey and Perry Townships. Noted Oct. 12.

Ind., Brazil—(Official)—Clay and Vigo Counties received bids for county line road from M. L. Lassell, Clay City, and Campbell & Hawkins, Brazil. Noted Sept. 14.

Ind., Clinton—City Council rejected only bid for paving North Main St. W. Lemoa, City Engr.

Ind., Huntington—(Official)—Bd. Pub. Wks. received no bids for waterbound macadam pavement. Noted Oct. 12.

Ind., New Albany—(Official)—Floyd County let contract road New Albany Township to S. T. GAMES, R. R. No. 3, about $11,350. Noted Oct. 12.

Ill., Chicago—City let contract cement sidewalks to G. KEHL & SON CO.

Ill., Kankakee—City let contract paving West Ave. and Chestnut St. to F. SHIDLER, 428 South Rosewood Ave.

Ill., Peoria—City let contract paving Cole St. to D. A. MYERS, $1.62 per sq.yd.

Ill., Rock Island—Bd. Local Impvr. let contract paving portion 42nd St. to TRI-CITY CONSTRUCTION CO. Noted Oct. 12.

Ill., Sidell—(Official)—County let contract, about 11,600 sq.yd. highways, to C. TAGGART, Martinsville, about $16,063. Noted Oct. 12.

Ill., Virginia—Bd. Local Impvr. received low bids for paving North Morgan St. from John G. Pratt, Virginia. About $8,396. Noted Sept. 14.

Ill., Waukegan—Bd. Local Impvr. let contract for paving 10th St. to WAUKEGAN IMPROVEMENT CO. About $15,156. Noted Oct. 19.

Wis., Milwaukee—Bd. Pub. Wks. let contracts as follows: Paving portion Kathryn Pl. and Vliet St., bituminous concrete, to J. S. O'NEILL, 796 Astor, Milwaukee, at $5,200; Fairwell Ave., Park Pl., Stowell Ave. and Van Buren St., to F. P. COUGHLIN, at $17,500; 8th St., to GEORGE CZERWINSKI, at $7,200.

Iowa, Council Bluffs—Council rejected only bid for resurfacing Oakland Ave. Noted Oct. 12.

Iowa, Des Moines—City let contract paving 2nd and Vine St. to WAGNER PAVING CO.; resurfacing and paving 3rd St. to J. A. HORRABIN, 1422 Walnut St.

Iowa, Red Oak—Montgomery County let contract grading highway, about 22,000 cu.yd. excavation, to WILSON CO., Red Oak, about $5,600. Noted Oct. 12.

Kan., Kansas City—City Comrs. let contract paving portion Argentine Drive to H. B. FENTON & CO. Noted May 18.

Kan., Leavenworth—City received low bid paving Broadway from Watts & Ammerman, Salina, $47,990 for 10 years' maintenance and $56,990 for 15 years.

Kan., Wichita—City let contract asphaltic macadam paving on portion 10 streets to H. L. MILES, 809 Beacon Bldg., paving portions 10 streets and alleys to GLOBE CONSTRUCTION CO., 501 Winne Bldg.

Neb., Lincoln—City let contracts paving to ROBERTS CONSTRUCTION CO., Dist. No. 367, $11,595; BURKE & COCHRANE CONSTRUCTION CO., First National Bank Bldg., Dist. No. 368, $36,040, Dist. No. 369, $11,784.

Neb., Omaha—(Official)—Douglas County received bids paving 2 mi. West Center St. from H. Murphy Co., Omaha, $2.64 per sq.yd., J. A. Beebe, Omaha, $2.68 per sq.yd., E. Geiger Construction Co., Leavenworth, Kan., $3.86 per lin.ft. Noted Oct. 12.

Neb., University Place—(Lincoln post office)—City let contract paving Dist. No. 9 to ABEL CONSTRUCTION CO., Lincoln. About $2.10 per yd.

N. D., Jamestown—City let road work to STANLEY BROS., St. Cloud, Minn.

Mo., Kansas City—Bd. Pub. Wks. let contracts paving to E. F. WILCOX, Dwight Bldg., Terrace Pl., $5,510; CLEVELAND-TRINIDAD PAVING CO., 1097 Vine St., Wyandotte St., $4,467. C. Hill, City Engr.

Mo., Kansas City—Bd. Pub. Wks. let contract 1881 sq.yd. concrete paving on Agnes St. and 5,560 sq.yd. bituminous paving Wornall Rd. to C. T. BROSNAHAN.

Mo., Springfield—City let contract paving portion Harrison St. to J. J. UNDERWOOD; $1.28 per sq.ft., Lyons St. to SHERWOOD MEYERS, $1.28 per sq.ft. Noted July 13.

Ark., Dardanelle—(Official)—Bd. Impvt. let contract 135,140 sq.ft. concrete sidewalks, including gutters and crosswalks, to PHOENIX CEMENT SIDEWALK CO., 701 North 21st St., Ft. Smith. About $19,516. Noted Oct. 12.

Ark., Pine Bluff—City let contract 17,000 sq.yd. pavement to J. A. PERDUE & CO., Pine Bluff, about $15,000.

Tex., Dallas—City let contract paving Pavilion St. to TEXAS BITULITHIC CO., about $6,357.

Tex., Dallas—City let contract paving portion Gaston Ave. to TEXAS BITULITHIC CO., Dallas, about $26,728. Noted Aug. 10.

Tex., Edinburg—Hidalgo County let contract 2 roads to T. F. LOVETT, San Juan, about $147,940.

Okla., Sapulpa—Creek County let contract improving Ozark Trail Rd. to M. B. VOUCHER and D. V. LIVINGSTON.

N. M., Roswell—City let contract paving Kentucky Ave. to CLEVELAND TRINIDAD PAVING CO., Corsicana, about $27,406. Noted July 27.

Ariz., Phoenix—City let contract improving several streets to CALIFORNIA-ARIZONA CONSTRUCTION CO.

Wash., Centralia—City let contract paving Chehalis Ave. to ALBERS & SON, Centralia, about $4,782. Noted Sept. 14.

Calif., Los Angeles—Los Angeles County let contract improving Sect. "A" Nogales Highway to AUBREY INVESTMENT CO., Prescott, about $62,000.

Calif., Los Angeles—City let contract paving portion 18th St. to FORD & STOUT, Bradbury Bldg., about $5,163. Noted Oct. 26.

Calif., Los Angeles—City let contract paving 40th St. to FAIRCHILD-GILMORE-WILTON CO., Pacific Electric Bldg., about $12,435.

Calif., Los Angeles—Low bidder improving portion Bluff Pl. was Fairchild-Gilmore-Wilton Co., Pacific Electric Bldg.

Calif., Los Angeles—Los Angeles County let contract scenic highway in Beverly Hills Dist., Rd. Impvt. Dist. No. 126, to SOUTHERN CALIFORNIA CONTRACTING CO., Title Insurance Bldg., about $52,112. Noted Oct. 19.

Calif., Pasadena—City let contract paving portion Glenarm St. to J. S. MILLER, Santa Monica. Noted Oct. 26.

Calif., Richmond—City received bids improving 47th St. from G. W. Cushing, 420 Macdonald Ave., $10,151, and J. Worth, $10,238.

Calif., Rio Vista—(Official)—City let contract curbing, guttering and paving various streets to JOHNSON-SHEA CO., Oakland. Noted Oct. 12.

Calif., San Francisco—Bd. Pub. Wks. let contract paving portion Oakdale Ave. to FLINN & TRACY, First National Bank Bldg. About $25,334.

Calif., San Francisco—City let contract paving, sidewalks, curbing and sewers in portion 20th Ave. to O. McHUGH, about $27,136.

Calif., San Francisco—City let contract improving 1 block Balboa St. to O. McHUGH, 304 Russ Bldg., about $5,409.

Calif., San Luis Obispo—City let contract cement sidewalks on Morro St. to E. D. COLE CONSTRUCTION CO., about 21½c. per sq.ft. Noted June 8.

Calif., San Rafael—City let contract macadamizing West End St. to BAKER & MARTIN, Sheldon Bldg., San Francisco.

Calif., Upland—(Official)—Bids received for 46,000 sq.ft. concrete pavement with oil and screening surface on 19th St. from Pearson & Summers, $4,906; W. C. Cline, $5,038; G. Snyder Contracting Co., $5,214. Noted Oct. 12.

Ont., Hamilton—City plans to pave Fairview Ave. with asphalt by day labor. E. R. Gray, City Engr. Noted Oct. 19.

Ont., Hamilton—(Official)—City to build cement sidewalks on Elm, Strachan and Province St. by day labor. Noted Oct. 19.

INDUSTRIAL WORKS

Proposed Work

Mass., Quincy—W. I. Cornell, 109 Brookline Ave., Back Bay Dist., Boston, making plans for 2-story garage and store building. About $50,000. E. W. Campbell, 5 Park Sq., Boston, Arch.

Conn., Hartford—D. F. Cotter, 40 Beach St., making plans for 1-story, 103x200-ft. public garage. About $20,000. B. A. Sellew, 756 Main St., Arch.

Conn., Stafford Springs—Rhode Island Worsted Co., making plans for 1-story, 200x300-ft. and 1-story, 50x200-ft. mill. About $200,000. C. A. Tinker, 465 Summer Ave., Springfield, Mass., Arch.

N. Y., Canajoharie—Beechnut Packing Co., Canal St., making plans for 2-story addition. F. E. Barbour, Gen. Mgr.

N. Y., New York—(Manhattan)—(Official)—Bids are being received by O. J. Zschoche, Arch., 1280 Clay Ave., Bronx, for 2-story, 50x96-ft. brick and concrete garage for M. Nering, 639 West 131st St. About $16,000.

N. Y., New York—(Manhattan)—(Official)—Bids are being received by C. R. Comstock, Arch., 110 West 40th St., for a 3-story, 21.6x99.11-ft. brick garage at 167 East 127th St., for O. Shahl, 2322 3rd Ave. About $15,000.

N. Y., Niagara Falls—American Sales Book Co., 3,000 Highland Ave., making plans for 2-story, 30x170-ft. addition. S. Larke, Maine St., Arch.

N. J., Paterson—Paterson Industrial Development Co. of Chamber of Commerce receiving bids Nov. 15 for 4-story, 75x275-ft. factory on Gray St. About $200,000. F. W. Wentworth, 140 Market St., Arch. Noted Oct. 5.

Penn., Reading—Reading Brewing Co., 9th and Laurel St., plans 2-story addition to bottling house. About $10,000. G. T. Gerhard & Son, 619 Pennsylvania Ave., Arch.

Penn., Williamsport—National Paint Wks., care of F. P. Cheesman and Norman Elliott, 100 West William St., New York, plans warehouse. T. J. Litzelman. 129 West 4th St., Arch.

Va., Roanoke—Norfolk & Western Ry. plans 1-story upholstering shop. About $50,000. J. E. Crawford, Roanoke, Ch. Engr.

Ohio, Cincinnati—C. Boldt Glass Wks. plans 2- or 3-story bottling plant. C. Boldt, Davis Lane and Pennsylvania R.R., Pres.

Ohio, Cleveland—Ideal Wheel Co. plans addition. A. H. Akerman, Massillon, Mgr.

Ohio, Cleveland—Tabor Ice Cream Co., 3500 Payne Ave., made plans for 4-story factory, Payne Ave. and East 35th St. About $125,000. C. D. Cooley Co., Century Bldg., Pittsburgh, Arch. and Engr. Noted Mar. 2.

Ind., Frankfort—McDougall Kitchen Cabinet Co. plans new plant. Esterline & Angus, Lemcke Annex, Indianapolis, Arch. and Engr.

Mich., Port Huron—G. R. Davidson purchased plant of Richmond Elevator Co. and will remodel and enlarge.

Mich., St. Joseph—Auto Specialties Manufacturing Co., Joliet, Ill., plans 2-story, 80x400-ft. factory.

Iowa, Ft. Dodge—Ft. Dodge Culvert Co. plans factory, 7th St. and 7th Ave., M. W. About $20,000.

Minn., Minneapolis—Mueller Furnace Co., 631 3rd Ave., S., plans factory at University Ave. and 27th St., S. E. About $70,000.

Minn., Minneapolis—Joseph T. Pierson Co., Chicago, plans fabricating plant in Midway Dist. About $100,000 or $125,000.

Minn., Minneapolis—Reinhard Bros. plan 4-story manufacturing building on 9th St. About $70,000.

Minn., St. Paul—J. T. Ryerson & Son, Inc., 2558 West 16th St., Chicago, plans steel plant on Wabash Ave.

Neb., Omaha—Fairmont Creamery Co., 12th and Jones St., making plans for 2-story factory to be leased by Merrill, Soule Co., Syracuse, N. Y. About $50,000. H. Lawril, 627 Paxton Blk., Arch.

Neb., Omaha—Morris & Co. plans to rebuild plant at South Omaha destroyed by fire.

Mo., Carthage—Kaut-Reith Shoe Co. soon receives bids for addition, about $17,500. Noted Oct. 19.

Mo., Kirksville—Missouri Heat, Light and Power Co. making plans for ice storage building and addition to boiler room. About $15,000. W. H. Hendricks, Kirksville, Gen. Mgr.

Tex., Houston—Pacific Bone and Fertilizer Co. of California plans fertilizer plant at Houston. S. Peiser, Pres.

Tex., Houston—Union Compress and Warehouse Co. plans cotton shed and warehouse on McKee St.

Tex., Wichita Falls—Hines Automatic Cotton Packer Co. plans factory.

Tex., Wichita Falls—Chamber of Commerce accepted proposition from Eastern Capitalists to install cotton mill. About $375,000.

Wash., Harrington—Dunning & Erich Harvester Co. plans 4 concrete additions to plant.

Ore., Hillsboro—Carnation Mill Products Co. plans 2-story, 100x170-ft. concrete and tile addition. About $50,000.

Ont., Hamilton—Hamilton Steel Wheel Co. making plans for factory. About $200,000. Prack & Perrine, Dumsden Bldg., Toronto, Arch.

Ont., London—W. A. Jenkins Stock Feed Co. plans to rebuild factory destroyed by fire with loss of $50,000.

Ont., Toronto—Dominion Government appointed C. S. Wilcox, Pres. Steel Co. of Canada, Hamilton, chairman of committee in reference to aeroplane factory in Toronto.

B. C., Lillooet—Pacific Great Eastern Ry. making plans for rein.-con. machine shops and roundhouse. About $150,000. A. H. Sperry, Vancouver, Gen. Mgr.

B. C., New Westminster—H. Schaake, New Westminister, plans foundry and machine shop. About $50,000.

Bids In and Contracts Awarded

Mass., Fall River—Fall River Iron Works Co., Ferry St., let contract 6-story warehouse to McNALLY CONSTRUCTION CO., 84 North Main St., about $35 000. Noted Aug. 17.

R. I., Providence—Lorraine Manufacturing Co. let contract 1-story addition to mill to B. F. SMITH CO., 22 Mason St., Pawtucket, about $25,000.

Conn., Danbury—New York, New Haven & Hartford R.R. let contract roundhouse, machine shops and office building on White St. to T. J. PARDY CONSTRUCTION CO., 15 Fairfield Ave., Bridgeport about $65,000. Noted Sept. 14.

N. Y., Auburn—Dunn & McCarthy, Washington St., let contract 3-story factory to G. MOSELEY, 24 Dill St., at $25,000.

Industrial Works (Continued)

N. Y., Buffalo—Pratt & Lambert, 79 Tonawanda St., let contract 4-story factory to C. BERRICKS SONS, 1131 Main St. About $16,000.

N. Y., Buffalo—Rice & Adams let contract 3-story factory to DUROLITHIC CO., Ellicott Sq. About $75,000.

N. Y., Buffalo—Buffalo Weaving and Belting Co., 215 Chandler St., let contract warehouse to J. N. BYERS, 461 Linwood Ave. About $14 000. Noted June 8.

N. Y., Buffalo—Magnus Beck Brewing Co., 446 North Division St., let contract addition to bottling plant to M. O'MALLEY, 214 Breckenridge St., about $10,000.

N. Y., Carthage—Carthage Silk Co. let contract 2-story mill to H. I. STARKWEATHER, 16 Front St. About $20,000.

N. Y., Green Island—(Troy post office)—Miller & Canary, 42 Paine St., let contract 2-story addition to STONE BROS., 1738 Highland Ave., about $46,000.

N. Y., Jamestown—Dahlstrom Metallic Door Co., East 2nd St., let contract 2 factory buildings to S. AUSTIN & SONS CO., 14230 Euclid Ave., Cleveland. About $20,000.

N. Y., New York—(Brooklyn)—W. H. Whitney let contract 4-story factory to HENNEBIQUE CONSTRUCTION CO., 1170 Broadway, Manhattan.

N. Y., New York—(Brooklyn)—H. L. Moss and N. Ginsberg, 117 Pennsylvania Ave., to build 1-story, 103x125-ft. garage by day labor. About $25,000.

N. Y., New York — (Manhattan) — Wellesley Realty Co., 261 Broadway, let contract 5- story garage to INDUSTRIAL ENGINEERING CO., 30 Church St. About $60,000.

N. Y., New York—(Manhattan)—Arrow Construction Co., 270 Broadway, to alter and enlarge 4-story garage by day labor. About $30,000.

N. Y., Niagara Falls—National Carbon Co. let contract 1-story, 135x300-ft. factory to SNYDER-GILLETT CONTRACTING CO., Gillett Court, about $50,000. Noted Oct. 5.

N. Y., Rochester—E. Sackett, 75 Exchange St., let contract 2-story garage to CURRAN & SWARTOUT, Granite Bldg., about $35,000.

N. Y., Syracuse—Firestone Tire and Rubber Co. let contract 2-story sales building to YENNOCK & PAOLINI, 414 West Division St., about $23,000.

N. Y., Syracuse—N. B. White, Onondaga Hotel, let contract public garage to T. H. McHALE & SON, Cahill Bldg., about $40,000.

N. J., Garfield—L. Buonocore & Son, 169 Harrison Ave., let contract 3-story factory to T. BRUNO & GALLANTE, Garfield, about $81,000.

N. J., Newark—Positive Lock Washer Co., Vanderpool St. and Ave. A., let contract addition to F. McCUE, 84 Harper St.. about $10,000.

N. J., Newark—Celluloid Co., 290 Ferry St., let contract several additions to STONE & WEBSTER ENGINEERING CORPORATION, 120 Broadway, New York, about $1,000,000.

Penn., Johnstown—Harris, Boyer Co., 147 Fairfield Ave., let contract bakery to L. OVERDORFF, Johnstown, about $10,000.

Penn., Philadelphia—Willis, Jones, McEwen Co., 1511 North 26th St., let contract 3-story warehouse to G. KESSLER CONSTRUCTION CO., Drexel Bldg., about $30,000.

Penn., Philadelphia—W. Cramp & Sons Ship and Engine Building Co., Beach and Ball St., let contract enlarging plant at Bettys Island to HOFFMAN ENGINEERING AND CONTRACTING CO., Pennsylvania Bldg., about $58,000. Noted June 22.

Penn., Philadelphia—A. Sanders, Land Title Bldg., let contract garage to A. CHAMBLEY, 243 South 10th St., about $25,000.

Penn., South Brownsville—Hamburg Distillery Co., Ltd., let contract fermenting and bonding home to SMITH & SHALLENBERGER, Uniontown, about $20,000.

W. Va., Beckley—Raleigh Grocery Co. let contract cold-storage plant to J. O. FREEMAN, Beckley, about $12,000.

Ohio, Cincinnati—Cincinnati Iron and Steel Co. let contract addition to plant, Front St. and Freeman Ave., to F. FOLZ, Dayton and McLean Ave., about $28,000. Noted Oct. 5.

Ohio, Cleveland—Atlas Car and Manufacturing Co. let contract addition to CAMPBELL-COCKBURN CO., Vickers Bldg., about $50,000. Noted Sept. 7.

Ohio, Cleveland—Cleveland Galvanizing Works let contract factory to W. F. THOMPSON, Euclid Ave., about $30,000. Noted Jan. 13.

Ohio, Cleveland—Ohio Blower Co., 5125 Perkins Ave., let contract 4-story, 60x200-ft. plant to RENAUGH CONSTRUCTION CO., 2835 East 51st St. About $75,000. Noted Oct. 12.

Ohio, Cleveland—Vitreous Enameling Co., 5301 Sweeney Ave., let contract factory to S. AUSTIN & SONS CO., 14230 Euclid Ave., about $50,000.

Ohio, Lima—Standard Oil Co. of Ohio let contract 2-story warehouse to A. A. LANE, Youngstown, about $10,000.

Ohio, New Boston—(Portsmouth post office)—Whitaker-Glessener Co., Wheeling, W. Va., to build blast furnaces by day labor. About $1,000,000. Noted Aug. 17.

Ohio, Niles—National Quality Lamp Div., Ecla Park, Cleveland, let contract 2-story addition to S. AUSTIN & SONS CO., 14230 Euclid Ave., Cleveland, about $50 000.

Ohio, Toledo—A. J. & T. Bentley, 201 Belmont Ave., to build 2-story storage building by day labor. About $15,000.

Ind., Ft. Wayne—Anthony Knitting Mills let contract 2-story addition to F. KRUCHENBERG, 2527 Anthony Blvd. Noted Sept. 28.

Ind., Indianapolis—Silver King Novelty Co., 65 North New Jersey St., let contract factory and salesroom to SHIELDS-CHAPIN CONSTRUCTION CO., 220 North Illinois St. About $50,000.

Ind., Indianapolis—Gibson Co., 416 North Capital Ave., let contract 5-story service station and sales building to BEDFORD STONE AND CONSTRUCTION CO., 810 Fletcher Trust Bldg., about $300,000.

Ind., Kokomo—H. Broadlick, 204 South Main St., let contract 2-story bakery to BRAUN & HECKMAN, about $15,000.

Mich., Detroit—Detroit United Railway Co. let contract freight house, Monroe Ave., Chene, Dequindre and Macomb St. to W. E. WOOD, 1805 Ford Bldg. About $1,000,000. Noted Oct. 12.

Mich., Detroit—McMillan Estate, c-o H. F. Thurber, 804 Union Trust Bldg., let contract garage to JANSE BROS., BOOMER, CRAIN & HOWE, 906 Dime Bank Bldg. About $50,000.

Mich., Detroit—D. W. Simons, Majestic Bldg., let contract garage to be leased by Stuber, Stone Co., to A. J. SMITH CO., 11 Campau Bldg. About $50,000.

Mich., Flint—Trojan Laundry Co. let contract 2-story laundry to W. E. WOODS CONSTRUCTION CO., Paterson Blk. About $75,000. Noted June 22.

Mich., Kalamazoo—Kalamazoo Malleable Iron Co. to build 1-story, 250x300-ft. factory by day labor. About $125,000. Noted Oct. 19.

Ill., Chicago—Hughes Electric Heating Co., 211 West Schiller St., let contract factory Waller Ave. to HANSON BROS., 127 North Dearborn St. About $100,000. Noted July 27.

Ill., Chicago—Raymer, Dalheim & Co., 374 West Monroe St., let contract 3-story printing plant to G. ANDERS, 6820 Chapel Ave., about $45,000.

Ill., Chicago—Hoeft & Co. Ashland Ave. and Kinzie St., let contract 1-story warehouse to MENKE, THIELBERG & CO., 139 North Clark St., about $10,000. Noted Sept. 14.

Ill., La Salle—Standard Oil Co. let contract warehouse and garage to E. GOODMAN, 814 2nd St. About $30,000. Noted July 13.

Ill., Moline—Berg & Beck Co. let contract machine shop to A. CARLSON & CO., 1429 9th St. About $10,000.

Ill., Rockford—Rockford Overland Co. let contract public garage to G. HOLM, 1604 4th Ave. About $30,000.

Ill., Rock Island—Rock Island Plow Co. let contract tractor plant to C. J. LARKIN, 556 30th St. About $20,000.

Wis., Algoma—Ahanapee Veneer and Seating Co. to build 2 additions by day labor. Noted Aug. 24.

Wis., Beloit—Fairbanks-Morse Manufacturing Co. let contract 2-story, 190x256-ft. machine shop to LEONARD CONSTRUCTION CO., 332 South Michigan Ave, Chicago. Noted May 25.

Wis., Milwaukee—Munkwitz Realty Co., 431 Milwaukee St., let contract 3-story garage, to be leased by Hughes Motor Co., 495 Broadway, to MEYER CONSTRUCTION CO., 611 Merrill Blvd., about $50,000.

Wis., Racine—Harvey Spring and Forging Co. let contract 100x200-ft. plant to NELSON & CO. Robinson Bldg. Noted Sept. 28.

Iowa, Ft. Madison—American Fork and Hoe Co. let contract plant to C. M. HOHLEN, Burlington, about $100,000. Noted Aug. 31.

Kan., Wichita—Terminal Elevator Co. let contract 1,200,000 bu. grain elevator to LEHRACK CONTRACTING AND ENGINEERING CO., Wichita.

N. D., Dickinson—Dickinson Grocery Co. let contract warehouse to LAWRENCE CONSTRUCTION CO., Plymouth Bldg., Minneapolis.

Mo., St. Louis—D. L. Parrish, 3126 Olive St., let contract addition to laundry to GAMBLE CONSTRUCTION CO., 620 Chestnut St. About $30 000. Noted Aug. 10.

Mo., St. Louis—Rajmoeller-Flint House Furnishing Co., 6205 Easton Ave., let contract warehouse and store building to C. WELSCH CONSTRUCTION CO., 7050 Olive St., about $50,000.

Okla., Purcell—J. Abernathy let contract warehouse to STEWART & WILDERSON, Oklahoma, about $10,000.

Okla., Tulsa—Middle West Baking Co. let contract 2-story addition to BOYDELL CONSTRUCTION CO., about $25,000. Noted June 1.

Man., Transcona—Dept. Rys., Ottawa let contract grain elevator to FEGLES, BELLOWS & CO., Ft. William, about $500,000.

FEDERAL GOVERNMENT

Proposed Work

N. Y., New York—Dredging—Bureau Yards and Docks, Navy Dept., Washington, D. C., receiving bids Nov. 4, in connection with Navy Yard. Noted Oct. 26.

N. Y., New York—Dredging—U. S. Engineer Office, Room 710, Armory Bldg., receiving bids Nov. 24, Hudson River Channel, N. Y.

N. Y., New York—Heating Plant—Const Quartermaster, New York, receiving bids Nov. 9, in warehouse, Governors Island, N. Y.

Penn., Beaver Falls—Post Office—Superv. Arch., Treasury Dept., Washington, D. C., receiving bids Nov. 28. Noted June 8.

Md., Annapolis—Sea Wall—Bureau Yards and Docks, Navy Dept., Washington, D. C., receiving bids Nov. 27, rein.-con., at U. S. Naval Academy.

D. C., Washington—Coast Guard Station and Accessories—Treasury Dept. receiving bids Nov. 28, at San Luis, Galveston Island, Tex.

D. C., Washington—Clock System—Superv. Arch., Treasury Dept., Washington, receiving bids Nov. 20.

D. C., Washington—Radio Masts—F. R. Harris, Ch. Bureau of Yards and Docks, Navy Dept., Washington, D. C., receiving bids Nov. 4.

La., New Orleans—Custom House—Superv. Arch., Washington, D. C., receiving bids Nov. 17 for remodeling. Noted Aug. 24.

Ill., East St. Louis—Post Office—Superv. Arch., Washington, D. C., receiving bids Dec. 22 for remodeling.

Neb., Chadron—Post Office and Court House—Superv. Arch., Treasury Dept., Washington, D. C., receiving bids Dec. 7.

Mont., St. Ignatius—Canal—U. S. Rec. Ser., Washington, D. C., receiving bids Nov. 28 for canal at Flathead Project, Mont.

Tex., Point Isabel—Artesian Well—F. R. Harris, Ch. Bureau Yards and Docks, Navy Dept., Washington, D. C., receiving bids Nov. 20, at Naval Radio Station, Point Isabel.

Wash., Ft. Flagler—Sewer—Const. Quartermaster, Ft. Worden, receiving bids Nov. 17.

Hawaii, Pearl Harbor—Crane—F. R. Harris, Ch. Bureau Yards and Docks, Navy Dept., Washington, receiving bids Nov. 27 (extension of date), 50 tons, for Naval Station. Noted Oct. 5.

Panama—Miscellaneous Supplies—Maj. E. I. Brown, Gen. Pur. Officer, Panama Canal, Washington, D. C., receiving bids Nov. 17.

Bids In and Contracts Awarded

R. I., Providence—Dredging—U. S. Engineer Office, Newport, received low bids Oct. 23, Providence Harbor, from J. S. Packard Dredging Co., 1004 Turks Head Bldg., Providence, $285,925; Bay State Dredging and Contracting Co., 247 Atlantic Ave., Boston, Mass., $294,200; Maryland Dredging and Contracting Co., 1515 Fidelity Bldg., Baltimore, Md., $325,440. Noted Sept. 28.

D. C., Washington—Battleships and Torpedo Boat Destroyers—Bids received Oct. 25 by the Sec. of Navy for 4 battleships, Nos. 45 to 48, and 20 torpedo boat destroyers, Nos. 75 to 94, as follows: Battleships—New York Shipbuilding Co., Camden, N. J., Parsons turbines, one vessel, $11,350,000, two vessels, $11,250,000 each, dock trial only. Delivery, one in 40, other in 46 months. For use of pine decking instead of teak, addition of $27,750; if fitted out as flagships, addition of $35,500 each; if propelling apparatus furnished by Department, deduction of $525,000 each. Fore River Shipbuilding Corporation, Quincy, Mass., Department's plans for hull and machinery, one vessel, $10,360,000, two vessels, $10,060,000 each; using Curtis turbines, one vessel, $11,016,000, two vessels, $10,716,000 each, Government to assume risks incident to increase of cost of labor and materials, and in the first proposition to furnish the propelling equipment. If the contractor is to assume risks above mentioned, prices are as follows: Government to furnish propelling machinery, one, $10,875,000 two, $10,875,000; contractor to furnish propelling machinery, one, $11,475,000, two, $11,475,000. Pine decking to be used instead of teak. Addition if vessels fitted as flagships, $40,000 each. Delivery, 42 and 48 months. Dock trials only. Newport News Ship Building and Dry Dock Co., Newport News, Va., Department to supply propelling equipment, one, $10,470,000, two, $10,375,000 each, bidder to supply Parsons or Curtis turbines, one, $10,990,000, two, $10,890,000 each. Deduction for use of pine decking instead of teak, $35,000 each. Addition for fitting as flagship, $50,000 each. Delivery, 39 and 45 months. Dock trials only. William Cramp & Sons Ship and Engine Building Co., Philadelphia, Penn., one vessel for actual cost of labor and materials plus ten per cent. Destroyers—Bath Iron Works, Bath, Maine, two, $1,185,000 each, three, $1,160,000 each, four, $1,150,000 each, delivery, 22 to 25 months; 1,154 tons displacement. Union Iron Works, San Francisco, two, $1,195,000 each, four, $1,190,000 each, six, first four for $1,190,000 each, fifth and sixth, $1,185,000 each; delivery, 22 to 26 months. Fore River Shipbuilding Corporation, Quincy, Mass., four, $1,175,000 each, six, $1,165,000 each, eight, $1,160,000 each, delivery, 24 to 30 months. Seattle Construction and Dry Dock Co., Seattle, Wash., one,, $1,386,000, two, $1,370,000 each, delivery, 22 months. William Cramp & Sons Ship and Engine Building Co., Philadelphia, Penn., two, $1,195,000 each, four, $1,195,000 each, delivery, 27 to 30 months.

D. C., Washington—Building—Low bidders Oct. 26 (a) construction, (b) mechanical equipment post office equipment shops, were: (a) Davis Construction Co., Washington, $120,936, National Fireproofing Co., Washington, $125,686, Hammet

Water-Works (Continued)

Miss., Coffeyville—City receiving bids Nov. 14 for water system. Noted June 20.

Tenn., Nashville—City plans municipal water system and pumping station above Stone's River. About $1,750,000.

Ky., Lancaster—City voted $250,000 bonds for extending and improving water system. R. C. Anderson, Engr. Noted Sept. 28.

Ky., Newport—City making plans for filter plant. About $40,000. James Maher, Supt.

Ky., Versailles—City voted $20,000 bonds for water system.

Ohio, Alliance—City soon receives bids for addition to filter plant. About $120,000. L. A. Tonkle, Supt. Noted Aug. 17.

Ohio, Bellefontaine—City retained W. J. Sherman Co., Toledo, Ohio, as Consult. Engr. for improving water system. Noted Sept. 14.

Ohio, Columbus—City soon votes on $30,000 bonds for filter plant. A. O'Shaughnessy, Supt. Noted Aug. 17.

Ohio, East Youngstown—Water Dept. receiving bids Nov. 10 for 2 motor-driven centrifugal pumps. B. L. Miller, Supt.

Ohio, Marion—Marion Water Co. plans to extend mains on Neil Ave. P. Kelly, Supt.

Ohio, New London—Citizens voted $56,000 water-works bonds.

Ohio, Salem—City plans 1,100,587-gal reservoir. About $18,632.

Ohio, Salem—City plans improving filter plant. About $71,500.

Mich., Allegan—City to vote Nov. 7 on $6,600 bonds for water system and electric-light plant. M. O. Grice, Supt.

Mich., Ann Arbor—City plans extending water system. About $75,000. Reginald Spokes, Supt.

Mich., Detroit—City plans 10-mi. 48-in. water mains.

Mich., Flint—City making plans for water mains. W. L. Fisher, Supt. Noted Oct. 5.

Mich., Mendon—City soon to vote on bonds for water system. Noted Oct. 26.

Mich., Otsego—City soon receives bids for improving water system. About $30,000. Noted Oct 12.

Mich., Plymouth—Village receiving bids Nov. 6 for 2 centrifugal-pumping units, motors, starting boxes, connecting pipe, etc.

Ill., Canton—City plans to improve pumping station. J. P. Gallagher, Supt.

Ill., Chicago—City receiving bids Nov. 4 for pumping station. W. R. Moorhouse, Comr. Pub. Wks.

Ill., Fisher—Village soon receives bids for water system. J. E. Pickens, Kankakee, Engr. Noted Sept. 21.

Ill., Galesburg—City Council passed ordinance for water mains in portion Lawrence Ave. T. H. Snowball, Supt.

Ill., Kewanee—City plans to spend $4,500 for water mains, and $10,000 for sewers. E. F. Ingham, Asst. Supt.

Ill., Mt. Morris—Village plans extending water mains in Sunset addition.

Ill., Quincy—City making plans for pumping station at head of Quincy Bay. About $85,900. W. P. Bushnell, Engr.

Ill., River Forest—(Chicago post office)—City voted $7,000 bonds for water system. Karl M. Mitchell, River Forest, Supt.

Ill., Rock Island—City to install 3,000,000-gal. pump in reservoir. R. W. Sharpe, Supt.

Ill., Springfield—City soon votes on bonds for pumping station.

Ill., Waukegan—H. V. Finkelstein, Manufacturers' Terminal Co., presented commissioners with complete plans for filter plant. About $228,000. Noted June 15.

Ill., Wilmette—City Trustees plan water system, about $150,000. D. H. Maury, 1137 Monadnock Blk., Chicago, Consult. Engr.

Wis., Chilton—City to receive bids in March for water system. Noted Oct. 26.

Wis., Kenosha—City sold $90,000 water bonds. B. C. Brennan, Supt.

Iowa, Forest City—City plans voting on $15,000 bonds for reservoir and pumping station. J. O. Johnson, Supt.

Iowa, Grinnell—City to vote Nov. 15 on $10,000 water bonds. W. A. Hendry, Supt.

Iowa, Havelock—(Official)—City soon votes on bonds for water system. George Mick, Clk. Noted Sept. 28.

Iowa, West Burlington—City soon votes on bonds for water system. Noted Oct. 26.

Minn., Cambridge—City to vote on $15,000 water bonds. Noted Oct. 26.

Minn., Rochester—City made plans for water system. About $35,000. C. L. Pillsbury Co., Minneapolis, Engr. Noted Sept. 14.

Minn., St. Paul—City soon lets contract for c.-i. pipe, specials, sluice gates, gate valves and steel reinforcing high-service reservoir. About $400,000. G. O. House, Gen. Supt.

Neb., Beatrice—City defeated bonds for water system. About $25,000. J. R. C. Field, Supt.

Neb., Dunbar—City plans water system and electric-light plant.

Neb., Hastings—City soon receives bids for water mains and sewer. Noted Apr. 13.

Neb., Norfolk—City plans extending water system. J. A. Hueboxer, Supt.

Neb., Pender—City retained Grant & Fulton, 607 Security Mutual Life Bldg., Lincoln, to make plans for improving water system.

S. D., Milbank—City voted $25,000 bonds for filter plant. Noted Oct. 5.

N. D., Grand Forks—City election Nov. 7 on $25,000 bonds for filter plant. J. J. Smith, Supt. Noted Oct. 26.

Mont., Bozeman—City sold $305,000 water and sewer bonds. E. F. Rich, Supt.

Mo., Brookfield—City votes Nov. 21 on $63,000 bonds for water system. James W. Lacey, Supt.

Mo., El Dorado Springs—City voted $20,000 bonds for extending water system.

Tex., Port Arthur—City votes Nov. 7 on $180,000 bonds for water and sewer systems. D. K. Miller, Supt. Noted Oct. 12.

Tex., San Antonio—City plans reservoir. H. J. Weirhause, Supt.

Tex., Sherman—City made plans for 1,300,000-gal. reservoir at Fairview Water Station, North Sherman.

Okla., Cyril—City plans election to vote on bond issue for water system.

Okla., Frederick—City receiving bids Nov. 14 for water system. J. L. Morrow, Supt.

Okla., Lawton—City plans water system. W. W. Saper, Supt.

Okla., Morrison—City to vote Nov. 7 on $18,000 bonds for water system.

Okla., Oklahoma—City soon to let contract for 2,868 tons c.-i. pipe. J. W. Bennett, Supt.

Okla., Tulsa—City rejected bids for pumping station. New bids to be received Nov. 9. About $5,000. M. Y. McFarland, Act. Supt.

Okla., Yale—(Official)—City voted $15,000 water bonds. G. C. Dale, Pres. Bd. Trustees. Noted Oct. 19.

Colo., Granada—City to vote Nov. 7 on $25,000 water bonds.

Colo., Hudson—City to vote Nov. 7 on $10,000 bonds for water system.

Idaho, Fayette—City Council soon to vote on bonds for water system.

Idaho, Moscow—See item under "Sewers."

Ariz., Clifton—City plans water main from pumping station to Clifton. About $55,000.

Ore., Richland—City sold $15,000 water bonds. Noted Oct. 12.

Calif., Coalinga—City to vote in November on $100,000 bonds for water system. Noted Oct. 12.

Calif., Merced—Crocker-Huffman Land and Water Co. plans to spend $30,000 for 300,000-gal. steel tank and additional pumping station. H. A. Lage, Supt.

Calif., San Barbara—Water Comrs. plan 20,000,000-gal. reservoir. About $85,000. V. E. Tracey, Supt.

Calif., San Rafael—Marin County sold $3,000,000 water bonds. William Volge, San Rafael, County Audr.

Que., Levis—City to vote bylaw Mar. 1 for filter system, also concrete reservoir, 1,500,000-gal. capacity. About $15,000. Noted Oct. 26.

Que., St. Marc des Carriers—City plans water system.

Ont., Cornwall—City making plans for addition to pumping station. Bids soon to be received. About $20,000. Charles Lount, Supt.

N. B., St. John—City soon to receive bids for 3,000 ft. c.-i. pipe. About $30,000. David B. Doig, Supt.

Alta., Spirit River—Town Council plans well and pumps.

Bids In and Contracts Awarded

Mass., Braintree—City received low bid for 4-, 6- and 12-in. water pipe from A. Williams & Co., 27 Lowell St., Boston, about $9,197.

Mass., Braintree—Town received low bid for c.-i. pipe and hydrants in Union St. from A. C. Trojano. Noted Oct. 5.

N. Y., Elmira—(Official)—Water Bd. let contract electrically driven centrifugal pump, 7,500,000 gal., to ALLIS-CHALMERS MANUFACTURING CO., Milwaukee, Wis. Noted Oct. 12.

N. J., Atlantic City—(Official)—City let contract c.-i. high-pressure fire-service main to M. B. MARKLAND, Atlantic City. About $81,749. Noted Oct. 19.

N. J., Bay Head—City let contract pumping station and disposal plant to WHITING, TURNER CONSTRUCTION CO., Secton Bldg., Baltimore, Md. About $25,990.

Penn., Erie—City to lay 12-in. water main on 10th St. by day labor.

Fla., Havana—(Official)—Bd. Pub. Wks. let contract water system and electric-light plant to J. B. McCRARY CO., Atlanta, Ga. About $20,678. Noted Sept. 14.

Fla., Jacksonville—Bd. Trustees let contract pump to ALLIS CHALMERS MANUFACTURING CO., $39,960; fittings to FLORENCE MACHINE CO., c.-i. pipe to UNITED STATES CAST IRON PIPE AND FOUNDRY CO., valves to COLUMBIA IRON WORKS. Noted Sept. 14.

Tenn., Rogersville—City did not receive bids Oct. 10 for water and sewer systems as noted in Oct. 5 issue.

Ohio, Alliance—City let contract 6,000,000-gal. cross-compound pumping engine to WORTHINGTON PUMP AND MACHINERY CORPORATION, Snow Works, Buffalo, about $30,440. Noted Oct, 12.

Ohio, New Boston—City let contract water system to DRAVO CONSTRUCTION CO., Diamond Bank Bldg., Pittsburgh, about $125,000.

Mich., Flint—(Official)—City let contract excavating for filter plant to F. D. FRINK, Flint. Noted Oct. 12.

Mich., Mt. Clemens—(Official)—City to improve water system by day labor. About $10,000. Noted Oct. 19.

Ill., Joliet—(Official)—Bd. Local Impvts. received low bid for water main in portion Wilcox St. from Curtis & Tyndall, Joliet. Noted Oct. 19.

Wis., Monticello—City let contract extending water mains to C. H. PHILLIPS, Waupaca.

Wis., West Allis—Bd. Pub. Wks. let contract extending water mains in 50th, 68th and 77th Ave. to H. HOHENSEE, 965 27th St., Milwaukee, at $1.29 per lin.ft. Noted Oct. 26.

Iowa, Corning—City let contract for water system to MALEY & KEELY CONSTRUCTION CO., 503 Massachusetts Bldg., Kansas City, Mo., at $23,455.

Minn., Duluth—City let contract water main to D. R. BLACK & CO. About $5,396.

Minn., Kenyon—City let contract improving water system to WILLIAM C. FRASER, St. Paul. Noted Sept. 21.

Minn., Mankato—City rejected bids for extending water mains in May St. H. F. Blomquist, Supt. Noted Aug. 10.

Minn., Minneapolis—(Official)—City received low bids for 30,000,000-gal. motor-driven centrifugal pump from R. D. Wood Co., Allis-Chalmers Co., De Laval Co. Noted Oct. 12.

Minn., St. Paul—City received bid for rotary screens for water system from St. Paul Foundry Co., St. Paul, at $6,400.

Minn., West St. Paul—City let contract water system to THORNTON BROS., St. Paul. About $37,982. Noted Oct. 5.

Kan., Argonia—City let contract water system to CONKLIN MORTGAGE CO., Wichita. About $20,000. Noted Oct. 26.

Tex., Loraine—City let contract water system to J. E. JARRETT & CO., San Antonio. Noted Aug. 21.

Tex., Miami—(Official)—City let contract water system to MULLER-PARKER ENGINEERING AND CONSTRUCTION CO., Dallas. About $8,197. Noted Sept. 7.

SEWERS

Proposed Work

N. Y., Fredonia—City plans disposal plant. About $100,000. Frank C. Moor, City Engr.

N. Y., New York—(Manhattan)—M. M. Marks, Borough Pres., Room 2032, Municipal Bldg., receiving bids Nov. 10 for sewer in 188th St. and 189th St., between Wadsworth and St. Nicholas Ave.

N. Y., New York—(Manhattan)—M. M. Marks, Borough Pres., Room 2032, Municipal Bldg., receiving bids Nov. 10 for extension sewer in 172nd St. between Ft. Washington Ave. and Broadway.

N. J., Camden—City receiving bids Nov. 20 for sewers in portion of Magnolia Ave. L. E. Farnham, City Engr.

Penn., Harrisburg—City plans disposal plant. M. B. Cowden, City Engr.

Penn., Hazleton—See item under "Streets and Roads."

Penn., Penns Station—City votes Nov. 7 on $25,000 sewer bonds.

Penn., Pittston—Council passed ordinance for sewer in Bonita Way. J. F. Langan, City Engr.

Md., Butterton—City plans sewers and disposal plant. Kastenhuber & Anderson, Dover St., Easton, Engr.

Md., Towson—City made plans for sewer system. About $66,902. Norton, Bird & Whitman 1320 Munsey Bldg., Baltimore, Engr.

W. Va., Fairmont—City votes Dec. 15 on bonds for storm and sanitary sewers. S. B. Miller, City Engr.

Ga., Lithonia—See item under "Water-Works." Noted Sept. 21.

La., Bogalusa—See item under "Water-Works." Noted Oct. 19.

Ohio, Akron—City votes Nov. 7 on $500,000 bonds for sanitary sewer in Brittain St. J. A. Gehrea, City Engr. Noted Oct. 5.

Ohio, Bellefontaine—City plans extending sewers in various streets. About $6,500. Clair E. Inskeep, City Engr.

Ohio, Cincinnati—City voted to install sewers in Queen Ave., White St. and Columbia Ave. Fred Schneller, City Clk.

Sewers (Continued)

Ohio, Cincinnati—City made plans for 8,250-ft. sewers. About $347,000. F. S. Krug, Ch. Engr.

Ohio, Elyria—City plans sewer in Middle Ave. C. N. Teobald, Engr.

Ohio, Elyria—Bd. Pub. Ser. receiving bids Nov. 6 for sewers in portion West River St. and Mussey Ave. M. M. Wilcox, Dir. Pub. Ser.

Ohio, Miamisburg—City votes Nov. 7 on $100,000 bonds for sanitary sewers.

Ohio, Newark—City passed resolution to improve sewer in portion West Main St. Charles H. Wells, City Engr.

Ohio, Piqua—Council passed resolution for storm sewer in Dist. No. 2. A. Schroeder, City Engr.

Ohio, Sidney—See item under "Streets and Roads."

Ind., Kokomo—Bd. Pub. Wks. receiving bids Nov. 16 for extending sewers in Loretta St. and Virginia Ave. Ben Haven, City Clk.

Mich., Detroit—City soon receives bids for sanitary sewer in Puritan and Wyoming Ave. About $10,000. R. A. Murdock, 508 Free Press Bldg., Detroit, Engr.

Mich., Ludington—City plans extending sewer system. George Clark, City Engr.

Mich., Redford—City defeated $100,000 sewer bonds.

Mich., Royal Oak—City making plans for sewer system. Bids to be received in spring. Mason L. Brown, 821 Chamber of Commerce Bldg., Detroit. Noted Mar. 23.

Ill., Havana—Bd. Local Imprvts. plans to spend about $24,000 for sewers.

Ill., Kewanee—See item under "Water-Works."

Ill., Waukegan—City made plans for sewers. About $7,000. J. J. Dietmeyer, Comr. Pub. Wks.

Wis., Fond du Lac—City soon receives bids for sewers in Seumour, West 2nd, Emma, West Rees, West Division, Oak and South St. J. S. McCullough, City Engr.

Iowa, Boone—City soon lets contract for disposal plant. About $50,000. Robert McCormick, City Engr. Noted May 4.

Iowa, Emmetsburg—City receiving bids Nov. 6 for storm sewer.

Iowa, Fayette—City making plans sewer system. About $17,000. G. H. Bishop, City Hall, Engr.

Iowa, Knoxville—City plans sewer and sewage disposal plant. M. G. Hall, Engr.

Iowa, Rockwell City—Town Council plans disposal plant. F. E. Burnham, Town Clk.

Minn., St. Cloud—City plans to spend $18,000 for storm sewers.

Kan., Hanover—City making preliminary plans for sewer system. Black & Veatch, Inter-State Bldg., Kansas City Mo., Arch. Noted Sept. 28.

Kan., Manhattan—City soon votes on $13,000 bonds for storm sewers. F. Walters, Engr. Noted Mar. 23.

Neb., Hastings—See item under "Water-Works."

Neb., Red Cloud—City voted $20,000 sewer bonds. Bids to be received in November. Grant & Fulton, Banker's Life Bldg., Lincoln, Engr. Noted Oct. 12.

Mont., Big Timber—(Official)—City receiving bids Nov. 6 for sewer system. About $40,000. Gerharz-Jaqueth Engineering Co., First National Bank Bldg., Great Falls, Engr. Noted Oct. 19.

Mo., Sikeston—City election Nov. 14 to vote on $5,000 sewer bonds.

Tex., Kenedy—State Atty. General's Dept. approved $6,000 bond issue for sewer system.

Tex., Lockhart—City voted $35,000 sewer bonds.

Okla., Beggs—City soon votes on $18,000 sewer bonds. P. L. Brown, Pres. Bd.

Colo., Loveland—City plans sewer district on East Side.

Idaho, Nampa—City soon to vote on $15 000 sewer improvements bonds.

Idaho, Nezperce—City plans voting $30,000 bonds for sewers. Noted Sept. 14.

Ariz., Douglas—City plans storm sewer in Ave. A. About $30,000. George N. Wood, City Engr.

Wash., Seattle—Bd. Pub. Wks. plans sewers on West Halliday St. and 8th Ave. About $11,845. A. H. Dimock, City Engr.

Wash., Seattle—See item under "Streets and Roads."

Calif., Long Beach—City soon lets contract for pumps for Sewer Dist. No. 3. A. de Dulz, Engr.

Calif., San Francisco—See item under "Streets and Roads."

Bids In and Contracts Awarded

N. Y., Elmira—City let contract sewers in Erie and Morrow St. to McGREEVLY, McGREEVLY & BAUM.

N. Y., Kenmore—City let contract storm water sewers in Myron Ave. to F. J. MUMM & CO., Buffalo. About $17,000. Noted July 13.

N. Y., New York—(Bronx)—(Official)—D. Mathewson, Borough Pres., received low bids for sewers in portions Westchester Ave., from Santor Construction Co., 234 West 41st, $10,993; West 230th and 231st St., from Marrone & Bove, $11,421. Noted Oct. 19.

N. Y., Olean—City received low bids for Contract No. 2 for sewers and pumping station along Alleghany River and Olean Creek from Lord Construction Co., 105 West 40th St., New York. About $64,716.

N. J., Camden—City let contract sewer portion of Mulford St. to AARON WARD & SON, 524 Trenton Ave. Noted Oct. 12.

Penn., Bellwood—City rejected bids for sewer systems and sewage plant. H. Linton, 1717 13th St., Altoona, Engr. Noted Sept. 28.

Penn., Philadelphia—(Official)—Low bidders Contract No. 16, sewer in portion of Thompson St., (a) Design A, (b) Design B, were Keystone State Construction Co., 704-709 Pennsylvania Bldg., Philadelphia (a) $215,416, (b) $199,684; Lombardi & Perna, 600 Lincoln Bldg., Philadelphia, (a) $221,450, (b) $200,104; Adolph Jaffola, 139 S. 50th St., Philadelphia, (a) $237,095, (b) $241,945.

Penn., Wilkes-Barre—City let contract storm sewer in Kelley St. to DOMINIC GURNARI, 281 Miller St.

Tenn., Copperhill—(Official)—City let contract sewers to A. C. BROOKS, Birmingham. Noted Oct. 12.

Ky., Lexington—Bd. Comrs. let contract storm sewer to CAREY-REED CO., Lexington. About $43,089.

Ohio, Greenfield—City let contract sewer system and disposal plant to H. E. MILLER, 654 Kelton Ave. Noted May 4.

Ohio, Port Clinton—City received low bid sewers in Washington St. from C. L. Wright, Mt. Vernon. About $14,038. Noted Sept. 21.

Ohio, Sebring—City let contract 19th St. Sewer to W. W. WATSON.

Ohio, Springfield—City let contract Rose St. Sewer to P. J. GAFFREY, about $9,296.

Ohio, Springfield—City let contract sewers in Indiana, Franklin, Oakwood and Landsdown St. to M. J. COONEY. Noted Oct. 26.

Ill., Evanston—C. T. Bartlett Co., Evanston at $47,148, low bidder Greenleaf St. Sewer.

Ill., Springfield—City let contract sewer in Clear Lake Ave. to J. PATTESON. Noted June 8.

Wis., Appleton—City let contract sewer in John St. to J. H. WAITE.

Wis., Baraboo—City let contract sewer in Birch St. to S. EDWARD SCHADDE.

Iowa, Primghar—Town let contract sewer and disposal systems to SIOUX CITY CONCRETE PIPE CO. About $30,000. Noted Sept. 21.

Minn., Benson—City let contract sewer in 13th St. to EDWARD SANDMEYER.

Neb., North Platte—City let contract 6,000 ft. sewer to C. J. BURKE, Kearney.

Neb., Oxford—City let contract sewer to H. J. PETERSON, Omaha. About $10,822. Noted Oct. 12.

Tex., San Antonio—City let contract sewer in Sect. 34 to ELDER BROS., P. O. Box, 202, San Antonio. About $5,318.

Calif., Hermosa Beach—City Trustees received low bids for disposal and treatment plant from T. J. Shea, 2039 Oxford Ave., Los Angeles, $33,122; S. M. Kearns, Long Beach, $35,407; R. H. McCray, Los Angeles, $44,300. Noted Sept. 28.

GARBAGE

Proposed Work

N. Y., Syracuse—Council voted $10,000 bonds for incinerating plant. R. B. Williams, Jr., Comr. Pub. Wks. Noted Feb. 24.

Mo., St. Joseph—City granted franchise to James R. Page to collect and dispose of garbage in St. Joseph. Contractor and associates to install $130,000 plant for manufacture from garbage.

STREETS AND ROADS

Proposed Work

Maine, Augusta—State Highway Comn. rejected bids 3.7 mi. gravel road in Thomaston and South Thomaston.

Mass., Ashland—Bd. Selectmen rejected bids for gravel road in Ashland Ave.

Mass., Cambridge—City appropriated $63,000 for repaving, wood block, 9,000 sq.yd. in Cogswell Ave. and Pacific St.

Mass., Cambridge—City Council appropriated $27,500 for paving portion Massachusetts Ave. Bids soon to be received.

Mass., Springfield—City plans to widen Dwight St. F. H. Clark, City Engr.

N. Y., New York—(Brooklyn)—L. H. Pounds, Borough Pres., Room 2, Borough Hall, receiving bids Nov. 8 for improving portions Bay 19th, East 12th and 81st St., Caton, Thatford and 23d Ave., also for furnishing and delivering 1,000 cu.yd. broken trap rock and 1,000 cu.yd. trap rock screenings.

N. Y., New York—(Manhattan)—M. M. Marks, Borough Pres., Room 2032 Municipal Bldg., receiving bids Nov. 10 for improving portions 181st St.

N. Y., New York—(Manhattan)—F. J. H. Kracke, Comr. Bridges, Municipal Bldg., receiving bids Nov. 16 for improving southerly portion Manhattan Plaza of Manhattan Bridge.

N. Y., New York—(Queens)—M. E. Connolly, Borough Pres., 3d floor, Borough Hall, 5th St. and Jackson Ave., Long Island City, receiving bids Nov. 6 for improving portions various streets.

N. Y., Patachogue—Citizens voted $8,000 bonds for paving Ocean Ave.

N. Y., Silver Creek—Village plans to pave portion Burgess St.

N. J., Bordentown—City to improve 2nd St., macadam.

N. J., Flemington—Bd. Freeholders, Hunterdon County, plan new road from Clover Hill to Flemington-Lambertville macadam road.

N. J., Jersey City—City Comrs. plans improving portion Ocean Ave., wood block. A. Van Keuren, City Engr.

N. J., Kearney—Town Council plans improving Hickory St. with Warrenite. H. P. Kreimer, City Engr.

N. J., Keyport—(Official)—Bd. Freeholders, Monmouth County, receive bids about Jan. 3 for road from Keyport to Red Bank, warrenite with concrete base. About $65,000. G. D. Cooper, 120 Broad St., Red Bank, Engr. Noted Oct. 19.

N. J., Mt. Holly—Burlington County plans 9-mi. sheet asphalt in 1917. James Logan, Mt. Holly, County Engr.

N. J., Salem—Bd. Freeholders Salem County plan highway from Delaware River at Pennsgrove to Sharpstown and seashore resorts. Address Clk., Salem.

N. J., Toms River—Bd. Freeholders, Ocean County, to improve about 91 mi. roads. About $203,000. Address County Clk., Toms River.

N. J., Woodbury—Bd. Freeholders, Gloucester County, plan gravel road from Woodbury to Battlefield Park, about 2½ mi. N. C. Catell, Wenonah, Engr.

N. J., Woodbury—Bd. Freeholders, Gloucester County, plan 2-mi. concrete road from Paulsboro to Gibbstown. N. C. Catell, Wenonah, Engr.

Penn., Coatesville—(Official)—Council receiving bids Nov. 6 for 5,450-ft. macadam road with bituminous surface around shores Rock Run Reservoir. E. E. Stern, City Clk. A. Potter, Consult. Engr.

Penn., Erie—Council passed ordinance for paving portion 23d St. About $13,565. F. G. Lynch, City Engr.

Penn., Hazleton—City plans to spend about $50,000 for paving and sewers. B. A. Youngman, City Engr.

Penn., Kingston—(Wilkes-Barre post office)—Borough plans to improve number streets including Elm, Bridge, Ridge and Mott Ave. and Hoyt St.

Penn., McKeesport—City Council passed ordinance for improving portion of Irwin St.

Penn., Reading—City appropriated $100,000 for paving streets. E. Alrich, City Engr.

Va., Richmond—City plans to pave portion Chamberlayne Ave. About $75,000 available. C. E. Bolling, City Engr.

Va., Richmond—C. E. Bolling, City Engr., making plans for widening Pumphouse Dr.

W. Va., Chester—Hancock County making plans for road improvements, about $125,000. R. Hobbs, Clk., and E. C. Crafton, New Cumberland, Engr.

W. Va., Clarendon—Alexandria County Comrs. plan to spend $118,615 for roads in Washington Dist. and $171,660 in Arlington Dist., also road paralleling tracks of Washington-Virginia Ry., Mt. Vernon Rd. with $20,000 State Aid, Glebe Rd., about $78,657 and Vacation Lane Rd. G. H. Rucker, Clarendon, County Clk.

W. Va., Elm Grove—Comrs. Ohio County, Wheeling, to rebuild National Rd. through Elm Grove. About $35,000 available. G. Steenrod, Wheeling, County Engr.

N. C., Burgaw—Pender County, Columbia Township, voted $25,000 road bonds. Address County Clk., Burgaw. Noted July 27.

N. C., Hamlet—City sold $50,000 street improvement bonds. J. S. Utter, City Engr. Noted Oct. 5.

N. C., Morganton—Burke County to build roads in Silver Creek, Lovelady, Leard, Upper Fork and Quaker Meadow Townships by day labor. About $100,000 available. Address County Clk., Morganton. Noted Oct. 26.

N. C., Raleigh—State Highway Comn. appropriated road funds for 1917 as follows: Person, Henderson, McDowell, Mecklenburg and Gaston Counties, $10,000; Wilkes County, $25,000; Madison County, $9,500; Rutherford County, $8,000; Catawba, Burke and Avery County, $5,000; Wilmington-Fayetteville Highway, $7,000.

N. C., Wilkesboro—Wilkes County soon receives bids for grading 250 mi. roads. About $250,000 available. R. T. Brown, Chapel Hill, and J. B. Roach, Statesville, Engr. Noted Sept. 28.

Ga., Louisville—Jefferson County voted $52,000 road bonds. Address County Clk., Louisville.

Ga., Statenville—Echols County plans road from Statenville to county line. Address County Clk., Statenville.

Ga., Valdosta—Lowndes County plans sand clay road from Valdosta to county line. Address County Clk., Valdosta.

Ga., Winder—Comrs. Barrow County plan election to vote on $65,000 road bonds. Address County Clk., Winder.

Fla., DeLand—Volusia County receiving bids Nov. 6 for improving highways in Halifax Special Rd. and Bridge Dist. Samuel D. Jordan, DeLand, County Clk. Noted Oct. 26.

Fla., Mayo—Lafayette County defeated $600,000 road bonds. Noted Sept. 28.

Streets and Roads (Continued)

Fla., Milton—Santa Rosa County receiving bids Nov. 14 for road from east bank of Marquis Bayou to Oskaloosa County line. H. W. Thompson, Milton, Clk.

Fla., Monticello—Jefferson County votes $67,000 road bonds. Address County Clk., Monticello.

Ala., Birmingham—City Comn. receiving bids Nov. 7 for paving portion of Tuscaloosa Ave., asphalt. About $15,000. Julian Kendrick, City Engr. Noted Oct. 5.

Ala., Dothan—Bd. Revenue Houston County receiving bids Dec. 4 for 2½ mi. sand-clay road on Cottonwood and Campbellton Rd. W. R. Koonce, Dothan, County Engr.

Ala., Grove Hill—Clarke County receiving bids Dec. 15 for grading, draining and surfacing with gravel road from Coffeeville to Gosport via Zimco Grove Hill and Whatley. About $30,000. A. L. Smith, Grove Hill, County Engr.

Ala., Tuscaloosa—City plans to pave several miles sidewalks. H. S. Sibley, City Engr.

Miss., Canton—Madison County plans $30,000 bond issue for roads in Supervs. Dist. No. 4. D. C. McCool, Canton, Clk.

Miss., Greenville—Bd. Supervs., Washington County, receiving bids Nov. 6 for roads. W. S. Miller, Greenville, Clk., J. S. Allen, County Rd. Engr. Noted Aug. 3.

Miss., Jackson—Bd. Supervs. Hinds County receiving bids Nov. 9 for $20,000 cu.yd. road gravel. Address County Clk., Jackson.

La., Bogalusa—See item under "Water-Works." Noted Oct. 19.

Ky., Burksville—Cumberland County plans road to Metcalf County line. About $100,000. Address County Clk., Burksville.

Ky., Paducah—McCracken County to vote Nov. 7 on $200,000 road bonds.

Ky., Richmond—Madison County election Dec. 7 to vote on $35,000 road improvement bonds. Address County Clk., Richmond.

Ohio, Akron—City plans improving portion Cuyahoga St. J. A. Gehres, City Engr.

Ohio, Armstrong Mills—Belmont County receiving bids Nov. 8 for improving about 4,900-ft. road. Address County Clk., St. Clairsville.

Ohio, Batavia—Village receiving bids Nov. 9 for improving portion Center St., macadam. H. L. Schroeder, Clk.

Ohio, Canton—City passed resolution to pave portion Greenfield Ave., S. W. William E. Sarver, City Engr.

Ohio, Cincinnati—Hamilton County plans to pave Hamilton Pike, brick, and Cameron Rd., concrete. W. H. Boeh, Court House, County Engr.

Ohio, Cincinnati—Bd. County Comrs., Hamilton County, Cincinnati, receiving bids Nov. 10 for improving North Bend Rd. and Springfield and Burnt Schoolhouse Rd., in Green and Colerain Townships. W. Boeh, Cincinnati, County Surv. Noted Sept. 14.

Ohio, Cincinnati—Council passed resolution to pave portion Concordia St., brick. F. Krug, City Engr.

Ohio, Cleveland—City plans improving portion of Cedar Ave. R. Hoffman, City Engr.

Ohio, Cleveland Heights—(Warrensville post office).—Town receiving bids Nov. 6 for improving portion of Compton Rd. and Minor Park Rd. F. A. Pease Engineering Co., 806 Marshall Bldg., Cleveland, Engr.

Ohio, Cleveland Heights—(Warrensville post office)—Village soon receives bids for paving, curbing, draining and grading portion Lamberton Rd. About $18,120 F. A. Pease Engineering Co., 804 Marshall Bldg., Cleveland, Engr.

Ohio, Greenville—City plans to pave, curb and gutter Vine St. and pave about 2½ mi. Union and West St. R. Horn, City Engr.

Ohio, Lakewood—City making surveys for 2 mi. boulevard. E. O. Fisher, City Engr.

Ohio, Lorain—Sidewalks Com. recommended that Council pave portions 13th St. C. M. Osborne, City Engr.

Ohio, McConnellsville—Morgan County plans to improve Edgerton Rd. J. Whitney, McConnellsville, Audr.

Ohio, Massillon—(Official)—City to vote Nov. 7 on $90,890 bonds for improving Pine, West and Erie St. H. McYost, City Engr. Noted Oct. 19.

Ohio, Milford—Village receiving bids Nov. 9 for improving Center St., bituminous macadam.

Ohio, Newark—City plans paving portion Linden Ave. C. H. Wells, City Engr.

Ohio, New Berlin—City to pave portion Portage St.

Ohio, Orrville—Council passed resolution for concrete sidewalks on various streets.

Ohio, Pomeroy—(Official)—Village rejected bids paving portion Mechanic St. New bids Nov. 16. W. J. Jones, Clk. Noted Sept. 28.

Ohio, Portsmouth—Council passed ordinance to improve portion Jefferson St. P. G. Harper, City Engr.

Ohio, St. Clairsville—Belmont County, Washington Township, receiving bids Nov. 8 for improving road in Washington Township, Rd. Imprv. Dist. No. 8.

Ohio, Shaker Heights—(Cleveland post office)—Village receiving bids Nov. 21 for improving North Moreland Blvd., concrete, asphalt or bituminous macadam. D. W. Willard, Village Engr.

Ohio, Sidney—(Official)—City retained W. J. Sherman Co., 613 The Nasby, Toledo, as Consult. Engr. for paving and sewer work. Noted Oct. 19.

Ohio, Toledo—City plans paving Summit Ave. and Ashland Ave. About $112,000. H. McKechnie, City Engr.

Ohio, Toledo—City plans paving portion of Adams St. About $112,000.

Ohio, Warren—Trumbull County plans to build Niles-Girard Rd. from Warren, Ohio, to McDonald, Penn. R. E. Hempel, Warren, County Engr.

Ohio, Youngstown—City plans paving portion Green St. F. M. Lillie, City Engr.

Ohio, Youngstown—(Official)—City receiving bids Nov. 8 for improving portion Indianola Ave. F. M. Lillie, City Engr. Noted May 11.

Ohio, Youngstown—(Official)—City receiving bids Nov. 8 for improving portions Clearmount and Park Cliff Ave. and Hillman and Hylda St. F. M. Lillie, City Engr. Noted Oct. 5.

Ohio, Youngstown—(Official)—City receiving bids Nov. 8 for improving portions Boardman and Commerce St. F. M. Lillie, City Engr. Noted May 25.

Ohio, Zanesville—Council passed ordinance to improve portion 7th St. C. Spencer, City Engr.

Ohio, Zanesville—City plans improving portion of 6th St. C. Spencer, Engr.

Ind., Cannelton—Tobin Township voted 4 mi. turnpike.

Ind., New Albany—Floyd County receiving bids Nov. 9 for road New Albany Township. E. Dupaquier, New Albany, Audr.

Mich., Ironwood—Bd. Supvrs., Gagebec County, Bessemer, voted $10,000 bonds for grading on Lake Superior Trunk Line road in 1917.

Mich., St. Joseph—Clinton County to vote in Nov. on $200,000 bonds for new roads. John Walker, Clk. Bd. Supvr.

Mich., Zeeland—(Official)—City to vote Nov. 7 on bonds for paving Main, Central and Church St. L. A. Boulay Co., 1248-51 Nicholas Bldg., Toledo, Engr. Noted Oct. 19.

Ill., Freeport—(Official)—City receives bids some time in November for 7,500 sq.yd. macadam paving, concrete curb and gutter, about $12,000 and 3,000 sq.yd. brick paving, concrete curb and gutter, about $7,500. C. S. Hepner, City Engr. Noted Oct. 19.

Ill., Freeport—County election Nov. 7 to vote on $850,000 road bonds. Address County Clk., Freeport. Noted Feb. 24.

Ill., Rock Island—Bd. Local Impvts. recommended repaving portion 20th St. About $12,000. W. Treichler, City Engr.

Ill., Silvis—Village plans to pave 2 mi. road in spring, concrete. R. Benell, Silvis, Engr.

Wis., Oconto—City sold $40,000 bonds for paving. B. M. Mulvaney, City Clk.

Iowa, Cedar Rapids—City receives bids about Feb. 1 for paving portions 1st Ave. and 6th St., brick, bitulithic, asphalt or wood block. About $102,000. T. F. McCauley, City Engr. Noted June 15.

Iowa, Garner—Council passed resolution to pave about 50 blocks.

Minn., Barage—Barage County to vote Nov. 7 on $125,000 bonds for good roads. Address County Clk., L'Anse.

Minn., Duluth—City plans grading portion of Greysolon St. About $10,000. A. Ayers, City Engr.

Minn., Hallock—Kittson County to vote Nov. 7 on $30,000 bonds for roads in Orleans. Address County Clk., Hallock.

Minn., Princeton—Mille Lacs County to vote Nov. 7 on $75,000 bonds for road work. Address County Clk., Princeton.

Minn., Two Harbors—City election Nov. 7 to vote on $100,000 road and bridge bonds. A. Omtvedt, City Clk.

Kan., Anthony—Harper County Comrs. plans 75-mi. hard surface road each year for next 5 years.

Kan., Hutchinson—City soon receives bids for paving portions 14th, 15th and 16th St., brick. G. L. McLane, City Engr.

Kan., Junction City—City making plans for roads across Ft. Riley military reservation from post to Ogden, concrete or oil-bound macadam.

Kan., Kansas City—Wyandotte County receiving bids Nov. 30 for surfacing about 1 mi. Parallel Rd. About $6,000. Address County Clk., Kansas City.

Kan., Wichita—Council passed resolution to repave portion Fountain Ave. and 2d St., concrete. B C. Wells, City Engr.

Neb., Lincoln—Lancaster County election Nov. 7 to vote on $800,000 road bonds. Address County Clk., Lincoln.

Mo., Kansas City—City plans to improve number streets including Bales Ave., 61st, Main and other streets. C. Hill, City Engr.

Mo., St. Louis—City Planning Comn. plans 11-mi. driveway over McCauseland Ave. along new channel through Forest Park and on Kings Highway. About $1,277,000. H. Bartholomew, Engr.

Mo., St. Louis—City plans to improve portion Union Blvd. About $43,750. E. R. Kinsey, Pres Bd. Pub. Ser.

Mo., Sikeston—City election Nov. 14 to vote on $10,000 street-improvement bonds.

Ark., Augusta—Woodruff County plans macadam road from Cotton Plant to county line, 7 mi. About $37,000. Address County Clk., Augusta.

Ark., Fayetteville—City making preliminary plans for macadamizing Arkansas Ave. and Maple and Dickson St. D. E. Bridenthal, Clk.

Tex., Athens—Henderson County voted $60,000 bonds for good roads in Malakoff; also $20,000 bonds for good roads in Trinidad.

Tex., Denton—Denton County Comrs. to vote Nov. 15 on $9,000,000 bonds for 225 mi. roads Roy Macks, Denton, County Clk.

Tex., Corsicana—Navarro County, Kerens Rd. Dist., election Nov. 11, to vote on $150,000 road bonds. Address County Clk., Corsicana.

Tex., Houston—City Comn. plans paving portion Harrison Blvd. E. E. Sands, City Engr.

Tex., Lefors—Grey County Comrs. soon to vote on $40,000 bonds for good roads. Address County Clk., Lefors.

Tex., Llano—City voted $20,000 road and bridge bonds.

Tex., Malakoff—Citizens voted $60,000 road bonds.

Tex., San Augustine—(Official)—San Augustine County defeated $45,000 road bonds. Address County Clk., San Augustine. Noted Oct. 12.

Tex., Vernon—City rejected bids about 15 blocks paving. New bids. About $75,000.

Tex., Wellington—Collingsworth County voted $100,000 road bonds. Address County Clk., Wellington.

Tex., Wheeler—Comrs. Court, Wheeler County, to vote Nov. 11 on $50,000 bonds for good roads.

Okla., Altus—City plans to pave 50 blocks macadam.

Okla., Bartlesville—City plans to pave 25 blocks on Keeler and South Delaware St., concrete.

Okla., Bartlesville—Washington County to vote Nov. 21 on $600,000 bonds for improving roads. J. C. Mitchell, Clk. Noted Oct. 19.

Okla., Buffalo—Harper County voted road bonds. E. L. Hubbard, Buffalo, County Clk.

Okla., Lincoln—City plans to pave about 22 blocks, $50,000. W. C. Bates, City Engr.

Okla., Tulsa—City rejected bids paving 9 streets and 2 alleys. New bids. E. C. Hughes, City Engr.

Okla., Woodward—Woodward County plans $55,000 road-bond issue. Address County Clk., Woodward.

Colo., Denver—City plans to extend West 7th and West 8th Ave. and build new road from present highway in mountains to proposed Government road.

Idaho, Lapwai—(Official)—Lapwai Highway Dist. defeated $150,000 road bonds. New election. Noted Oct. 12.

Utah, Provo—Utah County plans to build about 50 mi. road with state and Government aid. Address County Clk., Provo.

Wash., Aberdeen—City plans to spend about $40,000 for street improvements and bridges. L. D. Kelsey, City Engr.

Wash., Okanogan—Okanogan County plans to spend about $202,596 for road and bridge work next year. H. E. Smith, Okanogan, County Engr.

Wash., Seattle—Council plans to spend about $180,000 for street and sewer work. A. H. Dimock, City Engr.

Wash., Seattle—King County election Nov. 7 to vote on $75,000 road bonds. B. Phelps, Seattle, Audr.

Wash., Spokane—Council plans to spend $21,000 to grade and sidewalk Nevada St. about 2 mi. M. Macartney, City Engr.

Calif., Fillmore—City receiving bids about Dec. 1 for 4 mi. cement curbs and sidewalks. E. M. Lynch, Glendale, Engr.

Calif., Sacramento—Council passed ordinance to improve 13th St. F. C. Miller, City Engr.

Calif., Santa Ana—Orange County receiving bids Nov. 9 for 1,700 lin.ft. concrete pavement on Lemon Ave.

Calif., Ventura—Ventura County to sell $150,000 road bonds Nov. 8. Address County Clk., Ventura.

Calif., Ventura—Bd. Superv. Ventura County receiving bids Nov. 8 for improving Div. 1, Ventura to Santa Paula Rd., 11.1 mi. Address County Clk., Ventura.

Ont., Ottawa—Council plans driveway along Rideau River, about $8,710. N. H. H. Lett, City Clk.

Ont., Prescott—City made plans for highway between Prescott and Ottawa. About $10,000. Noted Mar. 16.

Ont., Toronto—City plans to pave portion Erskine Ave., concrete, about $13,270. W. A. Littlejohn, City Clk.

N. B., St. John—City plans to improve Clarendon St. A. Hatfield, Engr. Rds. Dept.

Streets and Roads (Continued)

Bids In and Contracts Awarded

Mass., Boston—Massachusetts Highway Comn. received low bids 2 sections highway in Williamstown, (a) 4,600 ft. between New Ashford and Williamstown, (b) 6,231 ft. between Pownal, Vt., and Williamstown, from: J. S. Lewis, Williamstown, (a) $6,834; Davis & Brock, Brookline, (a) $10,497, (b) $25,948; Alco Contracting Co., 178 North St., Boston, (a) $12,425, (b) $27,626; Perini & Bianchi, (b) $28,251.

Mass., Boston—Massachusetts Highway Comn. let contract road Freetown Township to Z. L. Canedy, East Taunton, about $8,400.

Mass., Marlboro—City plans to build granolithic sidewalks by day labor. W. J. Simonds, City Engr.

N. Y., Albany — (Official) — State Highway Comn., 55 Lancaster St., received low bids for constructing and repairing highways in various counties as follows: Road No. 1468, Ceeymans-Indian Fields, Part I, Albany County, 1.45 mi.—No bids. Road No. 5607, Franklinville-Machias, Cattaraugus County, 4.73 mi.—Vedder Construction Co., Delevan, $72,798; William F. Felton, Buffalo, $74,484. Road No. 5608, Machias-Delevan, Part I, Cattaraugus County, 2.17 mi.—Veeder Construction Co., Delevan, $33,179; William F. Felton, Buffalo, $33,763. Road No. 686-A, Weedsport-Cato, Cayuga County, 0.12 mi.—C. E. Rice, Weedsport, $3,014; Kennedy Construction Co., Albany, $3,776. Road No. 1381, Fredonia-South Dayton, Part 3, Chautauqua County, 3.90 mi.—William F. Felton, Buffalo, $49,807; Dickinson & Mangano, Silver Creek, $55,867. Road No. 1469—Silver Creek-Forestville, Chautauqua County, 4.94 mi.—William F. Felton, Delevan, $85,094; Constantine Construction Co., Buffalo, $85,393; Dickinson & Mongano, Silver Creek, $92,336. Road No. 1470, Kennedy-Ellington, Chautauqua County, 4.19 mi.—No bids. Road No. 5434-A, Mayville-Westfield, Chautauqua County, 0.05 mi.—J. B. Schultz, Fredonia, $6,246; Edward T. Beck, Warren, Penn., $6,341; Shipmen & Lincoln, Gowanda, $6,353. Road No. 1473, Otselic-Smyrnan, Part 1, Chenango County, 3.06 mi.—Paddleford & King, Sherburne, $43,084; Edward P. Arbogast, Shroudsburg, Penn., $45,773. Road No. 5629, Spencertown-Austerlitz, Columbia County, 5.02 mi.—Antonio Colamseo, Hudson, $65,852. Road No. 5622, Holland-Yorkshire, Part 1, Erie County, 5.19 mi.—Harper & Higginson, Inc., Newburgh, $106,930; Frank L. Cohen, Buffalo, $119,076. Road No. 621, St. Johnsville-Oppenheim, Part 2, Fulton County, 2.90 mi.—Couchy & Darling, Dolgeville, $29,970; D. I. Snell, Canajoharie, $31,401; Alfred H. Flynn, Albany, $31,573. Road No. 1376, Bull Run-Bleecker, Fulton County, 2.80 mi.—No bids. Road No. 1377—Gloversville-West Perth, Fulton County, 3.74 mi.—H. A. Schaupp, Guilderland, $38,993; E. Brown Baker, Herkimer, $43,039. Road No. 5626, Oppenheim-Dolgeville, Fulton County, $4.90 mi.—No bids. Road No. 1458, Morehouseville-Pisceo, Part 1, Hamilton County, 6.82 mi.—St. Lawrence Construction Co., Albany, $115,891. Road No. 5523, Wells-Speculator, Hamilton County, 6.84 mi.—No bids. Road No. 1256, Gunn Corners-Fishers Landing, Part 1, Jefferson County, 6.65 mi.—Henry P. Burgard, Buffalo, $79,831; Mascetti & Holley, Torrington, Conn., $82,021; Pathfinder Construction Co., Fulton, $82,748. Road No. 1351, Groveland-West Sparta, Livingston County, 2.05 mi.—Atlantic Construction Co., Atlanta, $34,856; Ribstein-Holer Co., Inc., Rochester, $35,880; McCarthy & Wall, Mt. Morris, $35,905. Road No. 1466, Churchville-Adams Basin, Monroe County, 6.33 mi. — Ribstein-Holter Construction Co., Rochester, $70,815; Newport Construction Co., Herkimer, $71,817; Hendrickson-McCabe Construction Co., Syracuse, $72,337. Road No. 513—Amsterdam-Morris Corner, Montgomery County, 2.49 mi.—Carl G. Snyder, Amsterdam, $21,793. Road No. 514, Snooks Corners-Amsterdam, Montgomery County, 2.70 mi.—No bids. Road No. 515, Berryville-Sammonsville, Montgomery County, 1.61 mi.—Odirondack Construction Co., Waterford, $18,107. Road No. 517, Palatine Bridge-Stone Arabia, Montgomery County, 3.70 mi.—No bids. Road No. 1396, Sheridan Boulevard-Burnside Ave. and Rockaway Turnpike, Nassau County, 2.99 mi.—No bids. Road No. 6625, Fayetteville-Chittenango, Part 1, Onondaga County, 3.94 mi.—Eagle Paving Co., Syracuse, $64,236. Road No. 5630, Weedsport-Jordan, Part 2, Onondaga County, 1.76 mi.—Charles H. Semper, Syracuse, $28,699; Kennedy Construction Co., Albany, $35,319. Road No. 5612, Waddington-Massenap, Part 1, St. Lawrence County, 9.12 mi.—Henry P. Burgard Co., Buffalo, $139,810; Kennedy Construction Co., Ltd., Montreal, Que., $141,102; Mascetti & Holley, Torrington, Conn., $141,966. Road No. 1460, Gansvoort-South Glens Falls, Saratoga County, 6.74 mi.—John J. Guinan Contracting Co., Brooklyn, $105,791. John B. Dower, Ballston Spa., $106,754. Road No. 1461, Schuylerville-Gansvoort, Saratoga County, 9.06 mi.—No bids. Road No. 1467, Cobleskill-Sharon Springs, Part 2, Schoharie County, 5.25 mi.—No bids. Road No. 1472, Sloanesville-Charleston, Part 1, Schoharie County, 7.84 mi.—John A. Jova, Inc., Newburgh, $31,461. Road No. 1420, Bradford-Tyrone, Schuyler County, 3.91 mi.—Willis L. Frost, Watkins, $30,909; Atlanta Construction Co., Atlanta, $31,418. Road No. 1474, Kanona-Prattsburg, Part 2, Steuben County, 4.99 mi.—Atlanta Construction Co., Atlanta, $46,151; Greenfield Construction Co., Hornell, $48,222; T. H. Gili Co., Binghamton, $48,338. Road No. 1475, Horning-Hornby, Steuben County, 6 mi.—Atlanta Construction Co., Atlanta, $69,320. Road No. 1476, Seely Creek-Caton, Part 2, Steuben County, 4 mi.—Atlanta Construction Co., Atlanta, $49,405; Greenfield Construction Co., Hornell, $51,464; John A. Jova, Inc., Newburgh, $52,953. Road No. 1477, Wayland Village, Steuben County, 2.83 mi.—Atlanta Construction Co., Atlanta, $53,261; Kennedy Construction Co., Albany, $56,879. Road No. 1463, Liberty-Woodbourne, Part 2, Sullivan County, 5.63 mi.—Armstrong & Trowbridge, Middletown, $64,697; George Mesler, Liberty, $65,385; Woodruff-Edgecomb Co., East Branch, $66,250. Road No. 5627, South Lansing-Myers, Tompkins County, 2.46 mi.—No bids. Road No. 1417, Wallkill-Newburgh, Part 1, Ulster County, 3.12 mi.—John A. Jova, Inc., Newburgh, $35,782; DeGraff & Hogeboom, Kingston, $35,854; Harper & Higginson, Inc., Newburgh, $36,086. Road No. 1418, Milton Landing-Milton, Ulster County, 0.55 mi.—Harper & Higginson, Inc., Newburgh, $14,287. Road No. 1464, High Falls-Stone Ridge, Ulster County, 1.80 mi.—No bids. Road No. 1465, Ulster Landing-Glasco, Ulster County, 2.79 mi.—C. T. Schoentag, Saugerties, $34,966; DeGraff & Hogeboom, Kingston, $37,614. Road No. 5632, Sodus-Alton, Wayne County, 5.85 mi.—Harradine Bros., Spencerport, $81,816; Chambers & Barnes, Rochester, $82,109; Lembdt & Washington, Monticello, $82,962. Road No. 1456, Westchester Ave., Westchester County, 1.09 mi.—No bids. Road No. 763, Hollowville-Crarysville, Columbia County, 7.14 mi.—John A. Jova, Inc., Newburgh, $43,804. Road No. 1162, Stonehouse-Stormville, Dutchess County, 5.16 mi.—Fulton Engineering Co., Inc., Albany, $43,237; A. T. Moran, New York, $45,299. Road No. 1321, Conesus-Wayland, Livingston County, 8.35 mi.—Fred J. Kenney Construction Co., Buffalo, $84,681; Atlanta Construction Co., Atlanta, $115,017. Road No. 1045, Cambria-Lockport, Niagara County, 5.13 mi.—Hammond-Tracey Construction Co., Inc., Middleport, $11,645. Sealed proposals were also received on Thursday, Oct. 26, 1916, for the repair of the following highways: Repair Contract No. 1006, Road No. 569, Baldwin Place-Mahopac, Putnam County—Amos D. Bridges & Sons, Hazardville, Conn., $8,830; John A. Jova, Inc., Newburgh, $8,993. Repair Contract No. 797—Road No. 462, Old Forge-McKeever, Herkimer County, Phelan & Sullivan, Utica, $5,791. Repair Contract No. 942, Road No. 120, Canajoharie-Sharon Springs, Montgomery County—D. I. Snell & Co., Canajoharie, $8,109; Fred J. Kinney Contracting Co., Buffalo, $9,600. Noted Oct. 5.

N. Y., Auburn—City let contract resurfacing North and State St. to J. HEALY, 107 Wall St., about $12,000.

N. Y., New York—(Bronx)—(Official)—Spadaro Contracting Co., 827 East 217th St., at $45,556, low bidder improving portion West 238th St. Noted Oct. 19.

N. Y., Hastings—Village let contract improving Tompkins, Ravendale and Farragut Ave. to F. J. KELLY, 763 Palisade Ave., Yonkers.

N. Y., New York—(Official)—(Brooklyn)—L. H. Pounds, Borough Pres., received low bids for repaving portion Ashland Pl. from Sicilian Asphalt Paving Co., 41 Park Row, Manhattan, $5,571; Bay 34th St., from Cranford Co., 52 9th Ave., Manhattan, $11,958. Noted Oct. 19.

N. Y., New York—(Official)—(Brooklyn)—Borough Pres. let contract improving portion Maspeth Ave. to ROSENTHAL ENGINEERING AND CONSTRUCTING CO., 65 Hooper St., Brooklyn, $7,578. Noted Oct. 19.

N. Y., Rochester—City let contracts paving as follows: Parkside Ave., J. FRIEDRICHS CO., Livingston Bldg., $10,288; Indiana St., F. V. BROTSCH CO., E. & B. Bldg., $9,036; Illinois St. and Longview Ave., F. L. HAGAMAN CO., $8,980 and $4,815 respectively.

N. Y., Schenectady—Bd. Contract and Supply let contract sidewalks, etc., in Chrysler Ave. to SCHENECTADY CONSTRUCTION CO., 332 State St., about $5,421.

N. J., Camden—Camden County let contract improving Grenloch Rd. to N. T. GIBBS, Clementine, about $30,000. Noted Oct. 5.

N. J., Hammonton—City let contract paving portion Bellevue Ave. to M. STAUB, Mamaroneck, about $32,791. Noted Oct. 26.

N. J., Woodbury—Gloucester County let contract paving Elm and Hardingville Rd. to J. S. FISHER & SON, Clayton, about $8,612. Noted Oct. 5.

Penn., Garden City—City let contract 7-mi. stone and cement sidewalks to GIBBONS & BUCKLEY, Lansdowne. About $25,000.

Penn., New Castle—County let contract highway Neshannock Township to G. AXE, New Wilmington, about $9,247.

Penn., Pittsburgh—City let contract paving portion Westfield St. to F. & F. DINLUS, 40 Boundary St., about $28,000.

Penn., Pittsburgh—Allegheny County let contract paving Dravosburg Rd. to McLAUGHLIN & McLAUGHLIN, 7309 Finance St.

Penn., Pittsburgh—City let contract improving portion Riverview Ave. to T. CRONIN, 17th and Muriel St., about $15,568. Noted July 13.

Penn., Pittsburgh—City let contract repaving Liberty Ave. to BOOTH & FLYNN, 1942 Forbes St., about $15,643. Noted Oct. 12.

Penn., South Fork—City let contract paving portion Maple St. to TORQUATO BROS., Windber, about $5,700.

Penn., Swarthmore—City let contract paving and curbing Park Ave. and Chester Rd. to PUGH & HUBBARD, Witherspoon Bldg., Philadelphia; Ogden Ave., P. MAHONY, Lansdowne. Noted July 20.

Penn., Uniontown—Fayette County let contract road work in Bullskin Township to BELLBOCKEL CO., Central Trust Bldg., Altoona, about $25,000.

Md., Baltimore—City let contract paving Baltimore and Worth Ave., Contract No. 141, to BALTIMORE ASPHALT BLOCK AND TILE CO., Monroe and Lohrman St., about $150,000.

Va., Norfolk—Bd. Control let contract 8,000 lin.ft. concrete curb and gutter along Bowden's Ferry Rd. to R. B. DENBY.

W. Va., Charleston—Council let contract paving Columbia and Indiana Ave. to CENTRAL ENGINEERING CO., about $1.80 per sq.yd.

W. Va., Moundsville—(Official)—City received bids paving portions Grant, Tomlinson and Ash Ave. from Springer & Springer, Elm Grove, $6,000; R. J. McFadden, Moundsville, $6,700. Noted Oct. 5.

W. Va., Wellsburg—Brooke County Court let contract brick roads to HAMILTON CONSTRUCTION CO., Philadelphia, Penn. About $223,000. Noted Sept. 28.

N. C., Monroe—City let contract curbing, sidewalks, guttering and paving to GULF PAVING CO., Chattanooga. Noted July 13.

N. C., Sumter—City let contract paving to ELY CONSTRUCTION CO., SIMONS-MAYVANT CO. and GEORGIA ENGINEERING CO., about $75,000.

Ga., Atlanta—City let contract repaving portion South Pryor St. to SOUTHERN PAVING AND CONSTRUCTION CO., Chattanooga, about $25,000.

Ga., Thomasville—City let contract sidewalks on portion Jackson St. to CAPITAL PAVING AND CONSTRUCTION CO. Noted July 20.

Fla., Ft. Lauderdale—(Official)—Broward County let contract about 6 mi. road to BRYAN & SNYDER, Ft. Lauderdale, $20,000; 4 mi. to J. FRITZ & SON, Dania, $13,000. Noted Oct. 12.

Fla., Tallahassee—Leon County let contract about 34 mi. sand-clay road to BRYSON & BRYSON; 5 mi. gravel road to G. W. RHODES, Woodville, Fla. Noted Sept. 7.

Ala., Grove Hill—Clarke County let contract improving portions Jackson and West Bend Rd. to CRAWLEY BROS., Bay Minette, about $13,340.

Ala., Lafayette—(Official)—Chambers County let contract grading, draining and surfacing with top soil portion State Trunk Rd. No. 13 to STANLEY & SINGER, Lafayette. About $7,232. Noted Sept. 28.

Miss., Holly Springs—(Official)—Marianna Rd. Dist. let contract 14-mi. sand-clay roads to R. A. CALLAHAN, Potts Camp. Noted Sept. 28.

La., Shreveport—County let contract grading continuation Tim Mooring Rd. from Vivian to Lewis to J. B. WILLS, about $8,752.

Ky., Lebanon—Fiscal Court Marion County let contract 2½-mi. Cissel's River Pike to ESTES & WARD. About $4,280.

Ohio, Bellaire—City let contract paving West Washington St. to CLIFFORD & SCHANNAFELT, Bellaire. Noted May 4.

Ohio, Cambridge—Guernsey County let contract grading Cambridge-Caldwell Rd. to ADAMS BROS. CONTRACTING CO., Cambridge.

Ohio, Canton—Stark County let contract improving Beach City-Justice Rd. to J. C. DEVINE, Alliance, about $36,035.

Ohio, Cheviot—City let contract paving portion Carson and Cheviot Ave. to WELLING & FRANZ, 9th and Plum St., Cincinnati.

Ohio, Cincinnati—(Official)—Hamilton County let contract improving portion Patterson Rd. No. 376 to VAN CAMP BROS., 2824 Linwood Rd. About $6,427. Noted Oct. 12.

Ohio, Cleveland—City let contract paving Colt Rd. to ENTERPRISE PAVING AND CONSTRUCTION CO., 8444 Broadway, about $8,497. Noted Aug. 3.

Ohio, Cleveland Heights—(Warrensville post office)—Town let contract paving Greyton Rd. to ASPHALT BLOCK CO., Toledo. About $21,894.

Ohio, Columbus—City let contract improving portion Lakeview Ave. to CLEVELAND TRINIDAD PAVING CO., 420 Lakeside Ave., Cleveland, about $20,790.

Ohio, Dayton—City let contract paving portion Wyoming St. to C. HOOLIHAN, Exchange St., about $5,737.

Ohio, Dayton—City let contract paving Chapel St. to GRAHAM, KINNEAR & CO., Columbus.

Ohio, Euclid—City let contract sidewalks Vine, Abbey and East Miller St. to OHIO QUARRIES CO., Citizens Bldg., Cleveland. Noted Oct. 5.

Ohio, Fostoria—City let contract improving Myers Ave. to BULGER & ANDERSON. Noted May 11.

Ohio, Mt. Vernon—City let contract grading and paving Catherine St. to M. T. KEELEY, & B. F. BOLIN, 274 Hudson Ave., Newark. Noted Sept. 7.

Streets and Roads (Continued)

Ohio, Niles—City let contract paving C St. to J. DEBUTE, about $9,000; Mill St., F. GEORGE, Leetonia, about $13,000. Noted Oct. 5.

Ohio, Norwood—City let contract paving Ridgeway Ave. to G. MURDOCK, 2531 Melrose Ave. Noted July 6.

Ohio, Osnaburg—Stark County Comrs. let contract paving Lincoln Highway to HAHN CONSTRUCTION CO., Canton. About $25,000.

Ohio, Portsmouth—City received low bid paving portion Kendall Ave. from Kelley Bros. Noted Oct. 19.

Ohio, Warren—Trumbull County let contract road Vernon Township to EVANS BROS., Hubbard, about $9,000.

Ind., Brazil—(Official)—Clay County received no bids for stone and gravel road on line between Posey and Perry Townships. Noted Oct. 12.

Ind., Brazil—(Official)—Clay and Vigo Counties received bids for county line road from M. L. Lassell, Clay City, and Campbell & Hawkins, Brazil. Noted Sept. 14.

Ind., Clinton—City Council rejected only bid for paving North Main St. W. Lemoa, City Engr.

Ind., Huntington—(Official)—Bd. Pub. Wks. received no bids for waterbound macadam pavement. Noted Oct. 12.

Ind., New Albany—(Official)—Floyd County let contract road New Albany Township to S. T. GAMES, R. R. No. 3, about $11,350. Noted Oct. 12.

Ill., Chicago—City let contract cement sidewalks to G. KEHL & SON CO.

Ill., Kankakee—City let contract paving West Ave. and Chestnut St. to F. SHIDLER, 428 South Rosewood Ave.

Ill., Peoria—City let contract paving Cole St. to D. A. MYERS, $1.62 per sq.yd.

Ill., Rock Island—Bd. Local Impvr. let contract paving portion 42nd St. to TRI-CITY CONSTRUCTION CO. Noted Oct. 12.

Ill., Sidell—(Official)—County let contract, about 11,600 sq.yd. highways, to C. TAGGART, Martinsville, about $16,063. Noted Oct. 12.

Ill., Virginia—Bd. Local Impvr. received low bids for paving North Morgan St. from John G. Pratt, Virginia. About $8,396. Noted Sept. 14

Ill., Waukegan—Bd. Local Impvr. let contract for paving 10th St. to WAUKEGAN IMPROVEMENT CO. About $15,156. Noted Oct. 19.

Wis., Milwaukee—Bd. Pub. Wks. let contracts as follows: Paving portion Kathryn Pl. and Vliet St., bituminous concrete, to J. S. O'NEILL, 796 Astor, Milwaukee, at $5,200; Fairwell Ave., Park Pl., Stowell Ave. and Van Buren St., to F. P. COUGHLIN, at $17,500; 8th St., to GEORGE CZERWINSKI, at $7,200.

Iowa, Council Bluffs—Council rejected only bid for resurfacing Oakland Ave. Noted Oct. 12.

Iowa, Des Moines—City let contract paving 2nd and Vine St. to WAGNER PAVING CO.; resurfacing and paving 3rd St. to J. A. HORRABIN, 1422 Walnut St.

Iowa, Red Oak—Montgomery County let contract grading highway, about 22,000 cu.yd. excavation, to WILSON CO., Red Oak, about $5,600. Noted Oct. 12.

Kan., Kansas City—City Comrs. let contract paving portion Argentine Drive to H. B. FENTON & CO. Noted May 18.

Kan., Leavenworth—City received low bid paving Broadway from Watts & Ammerman, Salina, $47,990 for 10 years' maintenance and $56,990 for 15 years.

Kan., Wichita—City let contract asphaltic macadam paving on portion 10 streets to H. L. MILES, 809 Beacon Bldg., paving portions 10 streets and alleys to GLOBE CONSTRUCTION CO., 501 Winne Bldg.

Neb., Lincoln—City let contracts paving to ROBERTS CONSTRUCTION CO., Dist. No. 367, $11,595; BURKE & COCHRANE CONSTRUCTION CO., First National Bank Bldg., Dist. No. 368, $36,040, Dist. No. 369, $11,784.

Neb., Omaha—(Official)—Douglas County received bids paving 2 mi. West Center St. from H. Murphy Co., Omaha, $2.64 per sq.yd., J. A. Beebe, Omaha, $2.68 per sq.yd., E. Geiger Construction Co., Leavenworth, Kan., $3.86 per lin.ft. Noted Oct. 12.

Neb., University Place—(Lincoln post office)—City let contract paving Dist. No. 9 to ABEL CONSTRUCTION CO., Lincoln. About $2.10 per yd.

N. D., Jamestown—City let road work to STANLEY BROS., St. Cloud, Minn.

Mo., Kansas City—Bd. Pub. Wks. let contracts paving to E. F. WILCOX, Dwight Bldg., Terrace Pl., $5,510; CLEVELAND-TRINIDAD PAVING CO., 1097 Vine St., Wyandotte St., $4,467. C. Hill, City Engr.

Mo., Kansas City—Bd. Pub. Wks. let contract 1881 sq.yd. concrete paving on Agnes St. and 5,560 sq.yd. bituminous paving Wornall Rd. to C. T. BROSNAHAN.

Mo., Springfield—City let contract paving portion Harrison St. to J. J. UNDERWOOD; $1.28 per sq.ft., Lyons St. to SHERWOOD MEYERS, $1.28 per sq.ft. Noted July 13.

Ark., Dardanelle—(Official)—Bd. Impvt. let contract 135,140 sq.ft. concrete sidewalks, including gutters and crosswalks, to PHOENIX CEMENT SIDEWALK CO., 701 North 21st St., Ft. Smith. About $19,516. Noted Oct. 12.

Ark., Pine Bluff—City let contract 17,000 sq.yd. pavement to J. A. PERDUE & CO., Pine Bluff, about $15,000.

Tex., Dallas—City let contract paving Pavilion St. to TEXAS BITULITHIC CO., about $6,357.

Tex., Dallas—City let contract paving portion Gaston Ave. to TEXAS BITULITHIC CO., Dallas, about $26,728. Noted Aug. 10.

Tex., Edinburg—Hidalgo County let contract 2 roads to T. F. LOVETT, San Juan, about $147,940.

Okla., Sapulpa—Creek County let contract improving Ozark Trail Rd. to M. B. VOUCHER and D. V. LIVINGSTON.

N. M., Roswell—City let contract paving Kentucky Ave. to CLEVELAND TRINIDAD PAVING CO., Corsicana, about $27,406. Noted July 27.

Ariz., Phoenix—City let contract improving several streets to CALIFORNIA-ARIZONA CONSTRUCTION CO.

Wash., Centralia—City let contract paving Chehalis Ave. to ALBERS & SON, Centralia, about $4,782. Noted Sept. 14.

Calif., Los Angeles—Los Angeles County let contract improving Sect. "A" Nogales Highway to AUBREY INVESTMENT CO., Prescott, about $62,000.

Calif., Los Angeles—City let contract paving portion 18th St. to FORD & STOUT, Bradbury Bldg., about $5,163. Noted Oct. 26.

Calif., Los Angeles—City let contract paving 40th St. to FAIRCHILD-GILMORE-WILTON CO., Pacific Electric Bldg., about $12,435.

Calif., Los Angeles—Low bidder improving portion Bluff Pl. was Fairchild-Gilmore-Wilton Co., Pacific Electric Bldg.

Calif., Los Angeles—Los Angeles County let contract scenic highway in Beverly Hills Dist., Rd. Impvt. Dist. No. 126, to SOUTHERN CALIFORNIA CONTRACTING CO., Title Insurance Bldg., about $52,112. Noted Oct. 19.

Calif., Pasadena—City let contract paving portion Glenarm St. to J. S. MILLER, Santa Monica. Noted Oct. 26.

Calif., Richmond—City received bids improving 47th St. from G. W. Cushing, 420 Macdonald Ave., $10,151, and J. Worth, $10,238.

Calif., Rio Vista—(Official)—City let contract curbing, guttering and paving various streets to JOHNSON-SHEA CO., Oakland. Noted Oct. 12.

Calif., San Francisco—Bd. Pub. Wks. let contract paving portion Oakdale Ave. to FLINN & TRACY, First National Bank Bldg. About $25,334.

Calif., San Francisco—City let contract paving, sidewalks, curbing and sewers in portion 20th Ave. to O. McHUGH, about $27,136.

Calif., San Francisco—City let contract improving 1 block Balboa St. to O. McHUGH, 304 Russ Bldg., about $5,409.

Calif., San Luis Obispo—City let contract cement sidewalks on Morro St. to E. D. COLE CONSTRUCTION CO., about 21½c. per sq.ft. Noted June 8.

Calif., San Rafael—City let contract macadamizing West End St. to BAKER & MARTIN, Sheldon Bldg., San Francisco.

Calif., Upland—(Official)—Bids received for 16,000 sq.ft. concrete pavement with oil and screening surface on 19th St. from Pearson & Summers, $4,906; W. C. Cline, $5,038; G. Snyder Contracting Co., $5,214. Noted Oct. 12.

Ont., Hamilton—City plans to pave Fairview Ave. with asphalt by day labor. E. R. Gray, City Engr. Noted Oct. 19.

Ont., Hamilton—(Official)—City to build cement sidewalks on Elm, Strachan and Province St. by day labor. Noted Oct. 19.

INDUSTRIAL WORKS

Proposed Work

Mass., Quincy—W. I. Cornell, 109 Brookline Ave., Back Bay Dist., Boston, making plans for 2-story garage and store building. About $50,000. E. W. Campbell, 5 Park Sq., Boston, Arch.

Conn., Hartford—D. F. Cotter, 40 Beach St., making plans for 1-story, 103x200-ft. public garage. About $20,000. B. A. Sellew, 756 Main St., Arch.

Conn., Stafford Springs—Rhode Island Worsted Co., making plans for 1-story, 200x300-ft. and 1-story, 50x200-ft. mill. About $200,000. C. A. Tinker, 465 Summer Ave., Springfield, Mass., Arch.

N. Y., Canajoharie—Beechnut Packing Co., Canal St., making plans for 2-story addition. F. E. Barbour, Gen. Mgr.

N. Y., New York—(Manhattan)—(Official)—Bids are being received by O. J. Zschoche, Arch., 1280 Clay Ave., Bronx, for 2-story, 50x96-ft. brick and concrete garage for M. Nering, 639 West 131st St. About $16,000.

N. Y., New York—(Manhattan)—(Official)—Bids are being received by C. R. Comstock, Arch., 110 West 40th St., for a 3-story, 21.6x99.11-ft. brick garage at 167 East 127th St., for O. Shahl, 2322 3rd Ave. About $15,000.

N. Y., Niagara Falls—American Sales Book Co., 3,000 Highland Ave., making plans for 2-story, 30x170-ft. addition. S. Larke, Maine St., Arch.

N. J., Paterson—Paterson Industrial Development Co. of Chamber of Commerce receiving bids Nov. 15 for 4-story, 75x275-ft. factory on Gray St. About $200,000. F. W. Wentworth, 110 Market St., Arch. Noted Oct. 5.

Penn., Reading—Reading Brewing Co., 9th and Laurel St., plans 2-story addition to bottling house. About $10,000. G. T. Gerhard & Son, 610 Pennsylvania Ave., Arch.

Penn., Williamsport—National Paint Wks., care of F. P. Cheesman and Norman Elliott, 100 West William St., New York, plans warehouse. T. J. Litzelman, 129 West 4th St., Arch.

Va., Roanoke—Norfolk & Western Ry. plans 1-story upholstering shop. About $50,000. J. E. Crawford, Roanoke, Ch. Engr.

Ohio, Cincinnati—C. Boldt Glass Wks. plans 2- or 3-story bottling plant. C. Boldt, Davis Lane and Pennsylvania R.R., Pres.

Ohio, Cleveland—Ideal Wheel Co. plans addition. A. H. Akerman, Massillon, Mgr.

Ohio, Cleveland—Tabor Ice Cream Co., 3500 Payne Ave., made plans for 4-story factory, Payne Ave. and East 35th St. About $125,000. C. D. Cooley Co., Century Bldg., Pittsburgh, Arch. and Engr. Noted Mar. 2.

Ind., Frankfort—McDougall Kitchen Cabinet Co. plans new plant. Esterline & Angus, Lemcke Annex, Indianapolis, Arch. and Engr.

Mich., Port Huron—G. R. Davidson purchased plant of Richmond Elevator Co. and will remodel and enlarge.

Mich., St. Joseph—Auto Specialties Manufacturing Co., Joliet, Ill., plans 2-story, 80x400-ft. factory.

Iowa, Ft. Dodge—Ft. Dodge Culvert Co. plans factory, 7th St. and 7th Ave., M. W. About $20,000.

Minn., Minneapolis—Mueller Furnace Co., 631 3rd Ave., S., plans factory at University Ave. and 27th St., S. E. About $70,000.

Minn., Minneapolis—Joseph T. Pierson Co., Chicago, plans fabricating plant in Midway Dist. About $100,000 or $125,000.

Minn., Minneapolis—Reinhard Bros. plan 4-story manufacturing building on 9th St. About $70,000.

Minn., St. Paul—J. T. Ryerson & Son, Inc., 2558 West 16th St., Chicago, plans steel plant on Wabash Ave.

Neb., Omaha—Fairmont Creamery Co., 12th and Jones St., making plans for 2-story factory to be leased by Merrill, Soule Co., Syracuse, N. Y. About $50,000. H. Lawril, 627 Paxton Blk., Arch.

Neb., Omaha—Morris & Co. plans to rebuild plant at South Omaha destroyed by fire.

Mo., Carthage—Kaut-Reith Shoe Co. soon receives bids for addition, about $17,500. Noted Oct. 19.

Mo., Kirksville—Missouri Heat, Light and Power Co. making plans for ice storage building and addition to boiler room. About $15,000. W. H. Hendricks, Kirksville, Gen. Mgr.

Tex., Houston—Pacific Bone and Fertilizer Co. of California plans fertilizer plant at Houston. S. Peiser, Pres.

Tex., Houston—Union Compress and Warehouse Co. plans cotton shed and warehouse on McKee St.

Tex., Wichita Falls—Hines Automatic Cotton Packer Co. plans factory.

Tex., Wichita Falls—Chamber of Commerce accepted proposition from Eastern Capitalists to install cotton mill. About $375,000.

Wash., Harrington—Dunning & Erich Harvester Co. plans 4 concrete additions to plant.

Ore., Hillsboro—Carnation Mill Products Co. plans 2-story, 100x170-ft. concrete and tile addition. About $50,000.

Ont., Hamilton—Hamilton Steel Wheel Co. making plans for factory. About $200,000. Prack & Perrine, Dumsden Bldg., Toronto, Arch.

Ont., London—W. A. Jenkins Stock Feed Co. plans to rebuild factory destroyed by fire with loss of $50,000.

Ont., Toronto—Dominion Government appointed C. S. Wilcox, Pres. Steel Co. of Canada, Hamilton, chairman of committee in reference to aeroplane factory in Toronto.

B. C., Lillooet—Pacific Great Eastern Ry. making plans for rein.-con. machine shops and roundhouse. About $150,000. A. H. Sperry, Vancouver, Gen. Mgr.

B. C., New Westminster—H. Schaake, New Westminster, plans foundry and machine shop. About $50,000.

Bids In and Contracts Awarded

Mass., Fall River—Fall River Iron Works Co., Ferry St., let contract 6-story warehouse to McNALLY CONSTRUCTION CO., 84 North Main St., about $35 000. Noted Aug. 17.

R. I., Providence—Lorraine Manufacturing Co. let contract 1-story addition to mill to B. F. SMITH CO., 22 Mason St., Pawtucket, about $25,000.

Conn., Danbury—New York, New Haven & Hartford R.R. let contract roundhouse, machine shops and office building on White St. to T. J. PARDY CONSTRUCTION CO., 15 Fairfield Ave., Bridgeport about $65,000. Noted Sept. 14.

N. Y., Auburn—Dunn & McCarthy, Washington St., let contract 3-story factory to G. MOSELEY, 24 Dill St., at $25,000.

Industrial Works (Continued)

N. Y., Buffalo—Pratt & Lambert, 79 Tonawanda St., let contract 4-story factory to C. BERRICKS SONS, 1131 Main St. About $16,000.

N. Y., Buffalo—Rice & Adams let contract 3-story factory to DUROLITHIC CO., Ellicott Sq. About $75,000.

N. Y., Buffalo—Buffalo Weaving and Belting Co., 215 Chandler St., let contract warehouse to J. N. BYERS, 461 Linwood Ave. About $14 000. Noted June 8.

N. Y., Buffalo—Magnus Beck Brewing Co., 446 North Division St., let contract addition to bottling plant to M. O'MALLEY, 214 Breckenridge St., about $10,000.

N. Y., Carthage—Carthage Silk Co. let contract 2-story mill to H. I. STARKWEATHER, 16 Front St. About $20,000.

N. Y., Green Island—(Troy post office)—Miller & Canary, 42 Paine St., let contract 2-story addition to STONE BROS., 1738 Highland Ave., about $46,000.

N. Y., Jamestown—Dahlstrom Metallic Door Co., East 2nd St., let contract 2 factory buildings to S. AUSTIN & SONS CO., 14230 Euclid Ave., Cleveland. About $20,000.

N. Y., New York—(Brooklyn)—W. H. Whitney let contract 4-story factory to HENNEBIQUE CONSTRUCTION CO., 1170 Broadway, Manhattan.

N. Y., New York—(Brooklyn)—H. L. Moss and N. Ginsberg, 117 Pennsylvania Ave., to build 1-story, 103x125-ft. garage by day labor. About $25,000.

N. Y., New York—(Manhattan)—Wellesley Realty Co., 261 Broadway, let contract 5- story garage to INDUSTRIAL ENGINEERING CO., 30 Church St. About $60,000.

N. Y., New York—(Manhattan)—Arrow Construction Co., 270 Broadway, to alter and enlarge 4-story garage by day labor. About $30,000.

N. Y., Niagara Falls—National Carbon Co. let contract 1-story, 135x300-ft. factory to SNYDER-GILLETT CONTRACTING CO., Gillett Court, about $50,000. Noted Oct. 5.

N. Y., Rochester—E. Sackett, 75 Exchange St., let contract 2-story garage to CURRAN & SWARTOUT, Granite Bldg., about $35,000.

N. Y., Syracuse—Firestone Tire and Rubber Co. let contract 2-story sales building to YENNOCK & PAOLINI, 414 West Division St., about $23,000.

N. Y., Syracuse—N. B. White, Onondaga Hotel, let contract public garage to T. H. McHALE & SON, Cahill Bldg., about $40,000.

N. J., Garfield—L. Buonocore & Son, 169 Harrison Ave., let contract 3-story factory to T. BRUNO & GALLANTE, Garfield, about $81,000.

N. J., Newark—Positive Lock Washer Co., Vanderpool St. and Ave. A., let contract addition to F. McCUE, 84 Harper St., about $10,000.

N. J., Newark—Celluloid Co., 290 Ferry St., let contract several additions to STONE & WEBSTER ENGINEERING CORPORATION, 120 Broadway, New York, about $1,000,000.

Penn., Johnstown—Harris, Boyer Co., 147 Fairfield Ave., let contract bakery to L. OVERDORFF, Johnstown, about $10,000.

Penn., Philadelphia—Willis, Jones, McEwen Co., 1511 North 26th St., let contract 3-story warehouse to G. KESSLER CONSTRUCTION CO., Drexel Bldg., about $30,000.

Penn., Philadelphia—W. Cramp & Sons Ship and Engine Building Co., Beach and Ball St., let contract enlarging plant at Bettys Island to HOFFMAN ENGINEERING AND CONTRACTING CO., Pennsylvania Bldg., about $58,000. Noted June 22.

Penn., Philadelphia—A. Sanders, Land Title Bldg., let contract garage to A. CHAMBLEY, 243 South 10th St., about $25,000.

Penn., South Brownsville—Hamburg Distillery Co., Ltd., let contract fermenting and bonding home to SMITH & SHALLENBERGER, Uniontown, about $20,000.

W. Va., Beckley—Raleigh Grocery Co. let contract cold-storage plant to J. O. FREEMAN, Beckley, about $12,000.

Ohio, Cincinnati—Cincinnati Iron and Steel Co. let contract addition to plant, Front St. and Freeman Ave., to F. FOLZ, Dayton and McLean Ave., about $28,000. Noted Oct. 5.

Ohio, Cleveland—Atlas Car and Manufacturing Co. let contract addition to CAMPBELL-COCKBURN CO., Vickers Bldg., about $50,000. Noted Sept. 7.

Ohio, Cleveland—Cleveland Galvanizing Works let contract factory to W. F. THOMPSON, Euclid Ave., about $30,000. Noted Jan. 13.

Ohio, Cleveland—Ohio Blower Co., 5125 Perkins Ave., let contract 4-story, 60x200-ft. plant to RENAUGH CONSTRUCTION CO., 2835 East 51st St. About $75,000. Noted Oct. 12.

Ohio, Cleveland—Vitreous Enameling Co., 5301 Sweeney Ave., let contract factory to S. AUSTIN & SONS CO., 14230 Euclid Ave., about $50,000.

Ohio, Lima—Standard Oil Co. of Ohio let contract 2-story warehouse to A. A. LANE, Youngstown, about $10,000.

Ohio, New Boston—(Portsmouth post office)—Whitaker-Glessener Co., Wheeling, W. Va., to build blast furnaces by day labor. About $1,000,000. Noted Aug. 17.

Ohio, Niles—National Quality Lamp Div., Ecla Park, Cleveland, let contract 2-story addition to S. AUSTIN & SONS CO., 14230 Euclid Ave., Cleveland, about $50 000.

Ohio, Toledo—A. J. & T. Bentley, 201 Belmont Ave., to build 2-story storage building by day labor. About $15,000.

Ind., Ft. Wayne—Anthony Knitting Mills let contract 2-story addition to F. KRUCHENBERG, 2527 Anthony Blvd. Noted Sept. 28.

Ind., Indianapolis—Silver King Novelty Co., 65 North New Jersey St., let contract factory and salesroom to SHIELDS-CHAPIN CONSTRUCTION CO., 220 North Illinois St. About $50,000.

Ind., Indianapolis—Gibson Co., 416 North Capital Ave., let contract 5-story service station and sales building to BEDFORD STONE AND CONSTRUCTION CO., 810 Fletcher Trust Bldg., about $300,000.

Ind., Kokomo—H. Broadlick, 204 South Main St., let contract 2-story bakery to BRAUN & HECKMAN, about $15,000.

Mich., Detroit—Detroit United Railway Co. let contract freight house, Monroe Ave., Chene, Dequindre and Macomb St. to W. E. WOOD, 1805 Ford Bldg. About $1,000,000. Noted Oct. 12.

Mich., Detroit—McMillan Estate, c-o H. F. Thurber, 804 Union Trust Bldg., let contract garage to JANSE BROS., BOOMER, CRAIN & HOWE, 906 Dime Bank Bldg. About $50,000.

Mich., Detroit—D. W. Simons, Majestic Bldg., let contract garage to be leased by Stuber, Stone Co., to A. J. SMITH CO., 11 Campau Bldg. About $50,000.

Mich., Flint—Trojan Laundry Co. let contract 2-story laundry to W. E. WOODS CONSTRUCTION CO., Paterson Blk. About $75,000. Noted June 22.

Mich., Kalamazoo—Kalamazoo Malleable Iron Co. to build 1-story, 250x300-ft. factory by day labor. About $125,000. Noted Oct. 19.

Ill., Chicago—Hughes Electric Heating Co., 211 West Schiller St., let contract factory Waller Ave. to HANSON BROS., 127 North Dearborn St. About $100,000. Noted July 27.

Ill., Chicago—Raymer, Dalheim & Co., 374 West Monroe St., let contract 3-story printing plant to G. ANDERS, 6820 Chapel Ave., about $45,000.

Ill., Chicago—Hoeft & Co., Ashland Ave. and Kinzie St., let contract 1-story warehouse to MENKE, THIELBERG & CO., 139 North Clark St., about $10,000. Noted Sept. 14.

Ill., La Salle—Standard Oil Co. let contract warehouse and garage to E. GOODMAN, 814 2nd St. About $30,000. Noted July 13.

Ill., Moline—Berg & Beck Co. let contract machine shop to A. CARLSON & CO., 1429 9th St. About $10,000.

Ill., Rockford—Rockford Overland Co. let contract public garage to G. HOLM, 1604 4th Ave. About $30,000.

Ill., Rock Island—Rock Island Plow Co. let contract tractor plant to C. J. LARKIN, 556 30th St. About $20,000.

Wis., Algoma—Ahanapee Veneer and Seating Co. to build 2 additions by day labor. Noted Aug. 24.

Wis., Beloit—Fairbanks-Morse Manufacturing Co. let contract 2-story, 190x256-ft. machine shop to LEONARD CONSTRUCTION CO., 332 South Michigan Ave, Chicago. Noted May 25.

Wis., Milwaukee—Munkwitz Realty Co., 431 Milwaukee St., let contract 3-story garage, to be leased by Hughes Motor Co., 495 Broadway, to MEYER CONSTRUCTION CO., 611 Merrill Blvd., about $50,000.

Wis., Racine—Harvey Spring and Forging Co. let contract 100x200-ft. plant to NELSON & CO. Robinson Bldg. Noted Sept. 28.

Iowa, Ft. Madison—American Fork and Hoe Co. let contract plant to C. M. HOHLEN, Burlington, about $100,000. Noted Aug. 31.

Kan., Wichita—Terminal Elevator Co. let contract 1,200,000 bu. grain elevator to LEHRACK CONTRACTING AND ENGINEERING CO., Wichita.

N. D., Dickinson—Dickinson Grocery Co. let contract warehouse to LAWRENCE CONSTRUCTION CO., Plymouth Bldg., Minneapolis.

Mo., St. Louis—D. L. Parrish, 3126 Olive St., let contract addition to laundry to GAMBLE CONSTRUCTION CO., 620 Chestnut St. About $30 000. Noted Aug. 10.

Mo., St. Louis—Rajmoeller-Flint House Furnishing Co., 6205 Easton Ave., let contract warehouse and store building to C. WELSCH CONSTRUCTION CO., 7050 Olive St., about $50,000.

Okla., Purcell—J. Abernathy let contract warehouse to STEWART & WILDERSON, Oklahoma, about $10,000.

Okla., Tulsa—Middle West Baking Co. let contract 2-story addition to BOYDELL CONSTRUCTION CO., about $25,000. Noted June 1.

Man., Transcona—Dept. Rys., Ottawa let contract grain elevator to FEGLES, BELLOWS & CO., Ft. William, about $500,000.

FEDERAL GOVERNMENT

Proposed Work

N. Y., New York—Dredging—Bureau Yards and Docks, Navy Dept., Washington, D. C., receiving bids Nov. 4, in connection with Navy Yard. Noted Oct. 26.

N. Y., New York—Dredging—U. S. Engineer Office, Room 710, Armory Bldg., receiving bids Nov. 24, Hudson River Channel, N. Y.

N. Y., New York—Heating Plant—Const Quartermaster, New York, receiving bids Nov. 9, in warehouse, Governors Island, N. Y.

Penn., Beaver Falls—Post Office—Superv. Arch., Treasury Dept., Washington, D. C., receiving bids Nov. 28. Noted June 8.

Md., Annapolis—Sea Wall—Bureau Yards and Docks, Navy Dept., Washington, D. C., receiving bids Nov. 27, rein.-con., at U. S. Naval Academy.

D. C., Washington—Coast Guard Station and Accessories—Treasury Dept. receiving bids Nov. 28, at San Luis, Galveston Island, Tex.

D. C., Washington—Clock System—Superv. Arch., Treasury Dept., Washington, receiving bids Nov. 20.

D. C., Washington—Radio Masts—F. R. Harris, Ch. Bureau of Yards and Docks, Navy Dept., Washington, D. C., receiving bids Nov. 4.

La., New Orleans—Custom House—Superv. Arch., Washington, D. C., receiving bids Nov. 17 for remodeling. Noted Aug. 24.

Ill., East St. Louis—Post Office—Superv. Arch., Washington, D. C., receiving bids Dec. 22 for remodeling.

Neb., Chadron—Post Office and Court House—Superv. Arch., Treasury Dept., Washington, D. C., receiving bids Dec. 7.

Mont., St. Ignatius—Canal—U. S. Rec. Ser., Washington, D. C., receiving bids Nov. 28 for canal at Flathead Project, Mont.

Tex., Point Isabel—Artesian Well—F. R. Harris, Ch. Bureau Yards and Docks, Navy Dept., Washington, D. C., receiving bids Nov. 20, at Naval Radio Station, Point Isabel.

Wash., Ft. Flagler—Sewer—Const. Quartermaster, Ft. Worden, receiving bids Nov. 17.

Hawaii, Pearl Harbor—Crane—F. R. Harris, Ch. Bureau Yards and Docks, Navy Dept., Washington, receiving bids Nov. 27 (extension of date), 50 tons, for Naval Station. Noted Oct. 5.

Panama—Miscellaneous Supplies—Maj. E. I. Brown, Gen. Pur. Officer, Panama Canal, Washington, D. C., receiving bids Nov. 17.

Bids In and Contracts Awarded

R. I., Providence—Dredging—U. S. Engineer Office, Newport, received low bids Oct. 23, Providence Harbor, from J. S. Packard Dredging Co., 1004 Turks Head Bldg., Providence, $285,925; Bay State Dredging and Contracting Co., 247 Atlantic Ave., Boston, Mass., $294,200; Maryland Dredging and Contracting Co., 1515 Fidelity Bldg., Baltimore, Md., $325,449. Noted Sept. 28.

D. C., Washington—Battleships and Torpedo Boat Destroyers—Bids received Oct. 25 by the Sec. of Navy for 4 battleships, Nos. 45 to 48, and 20 torpedo boat destroyers, Nos. 75 to 94, as follows: Battleships—New York Shipbuilding Co., Camden, N. J., Parsons turbines, one vessel, $11,350,000, two vessels, $11,250,000 each, dock trial only. Delivery, one in 40, other in 46 months. For use of pine decking instead of teak, addition of $27,750; if fitted out as flagships, addition of $35,500 each; if propelling apparatus furnished by Department, deduction of $525,000 each. Fore River Shipbuilding Corporation, Quincy, Mass., Department's plans for hull and machinery, one vessel, $10,360,000, two vessels, $10,060,000 each; using Curtis turbines, one vessel, $11,016,000, two vessels, $10,716,000 each. Government to assume risks incident to increase of cost of labor and materials, and in the first proposition to furnish the propelling equipment. If the contractor is to assume risks above mentioned, prices are as follows: Government to furnish propelling machinery, one, $10,875,000 two, $10,875,000; contractor to furnish propelling machinery, one, $11,475,000, two, $11,475,000. Pine decking to be used instead of teak. Addition if vessels fitted as flagships, $40,000 each. Delivery, 42 and 48 months. Dock trials only. Newport News Ship Building and Dry Dock Co., Newport News, Va., Department to supply propelling equipment, one, $10,470,000, two, $10,375,000 each, bidder to supply Parsons or Curtis turbines, one, $10,990,000, two, $10,890,000 each. Deduction for use of pine decking instead of teak, $35,000 each. Addition for fitting as flagship, $50,000 each. Delivery, 39 and 45 months. Dock trials only. William Cramp & Sons Ship and Engine Building Co., Philadelphia, Penn., one vessel for actual cost of labor and materials plus ten per cent. Destroyers—Bath Iron Works, Bath, Maine, two, $1,185,000 each, three, $1,160,000 each, four, $1,150,000 each, delivery, 22 to 25 months; 1,154 tons displacement. Union Iron Works, San Francisco, two, $1,195,000 each, four, $1,190,000 each, six, first four for $1,190,000 each, fifth and sixth, $1,185,000 each; delivery, 22 to 26 months. Fore River Shipbuilding Corporation, Quincy, Mass., four, $1,175,000 each, six, $1,165,000 each, eight, $1,160,000 each, delivery, 24 to 30 months. Seattle Construction and Dry Dock Co., Seattle, Wash., one, $1,386,000, two, $1,370,000 each, delivery, 22 months. William Cramp & Sons Ship and Engine Building Co., Philadelphia, Penn., two, $1,195,000 each, four, $1,195,000 each, delivery, 27 to 30 months.

D. C., Washington—Building—Low bidders Oct. 26 (a) construction, (b) mechanical equipment post office equipment shops, were: (a) Davis Construction Co., Washington, $120,936, National Fireproofing Co., Washington, $125,686, Hammet

Federal Government Work (Continued)

Fireproofing Co., Washington, $129,683; (b) W. G. Cornell Co., Washington, $47,849, Biggs Heating Co., Washington, $49,100, Standard Engineering Co., Washington, $49,480.

D. C., Washington—Grading Streets—Dist. Comrs. received low bids for grading, Item 1, Rhode Island Ave., 2, Todd Pl., 3, Franklin St., 4, Massachusetts Ave., from E. G. Gummell, Washington, Item 1, 40c., 2, 65c., 3, 28c., 4, 23c.; H. F. Voight Co., Item 2, 55c., 3, 17.5c., 4, 26c.; G. B. Mullen, Item 1, 33c., 3, 24c., 4, 27c. Noted Oct. 12.

W. Va., Buchannon—Post Office—U. S. Government let contract to VOLNEY E. TAYLOR, Huntington. About $38,800. Noted Oct. 26.

Ill., Chicago—Breakwater—U. S. Engineer Office, 508 Federal Bldg., Chicago, received low bids at Chicago Harbor from Byrne Bros. Dredging and Engineering Co., 208 S. La Salle St., Chicago, at $1.61; Great Lakes Dredge and Dock Co., Monroe Bldg., Chicago, at $1.29; Edward Gillen Dock Dredge and Construction Co., 112 N. Erie St., Racine, Wis., at $1.21. Noted Sept. 21.

N. D., Dickinson—Post Office—U. S. Government let contract to CHARLES WEITZ SONS, Des Moines, Iowa. About $71,287. Noted Oct. 26.

Idaho, Boise—Post Office—Superv. Arch., Treasury Dept., received low bids from Welch Bros. and Hannaman, Kalispell, Mont., $32,874; A. S. Whiteways, Boise, $33,857; Henrikson & Co., Seattle, Wash., $34,448. Noted Sept. 21.

CANALS, DITCHES AND IRRIGATION

Proposed Work

N. Y., Albany—(Official)—Barge Canal Work—W. W. Wotherspoon, State Supt. Pub. Wks., Capitol, receiving bids Nov. 21 for completing improved Erie Canal at intersections with old Erie Canal and incidental work between Jacksonburg and Herkimer, Contract No. 30-A, Sect. 4; about $122,013; constructing lift bridge on Adams St., Lockport and removing existing lift bridge at Chapel St., Contract No. 98, Sect. 10, about $77,496; furnishing and installing steel stiff leg derricks on terminal sites at Albany, Whitehall, Little Falls, Rome, Lockport and Tonawanda, Terminal Contract No. 101, about $21,891.

Fla., Jacksonville—Drainage—Baldwin Drainage Dist., Consolidated Bldg., receiving bids Nov. 15 for 1,750,000-cu.yd open ditch and concrete spillways, Duval County.

Fla., Jacksonville—Drainage—Upper St. Johns Drainage Dist. to make surveys for draining about one half million acres. Isham, Randolph & Co., Jacksonville, Engr.

Fla., West Palm Beach—Canals—Moore & Adams Co., Odebolt, Iowa, purchased 11,520 acres on Hillsboro Canal, 7 mi. east of Lake Okeechobee and plans drainage canals. W. P. Adams, Pres.

Miss., Marks—(Official)—Drainage—Comrs. Indian Creek Drainage Dist. Sledge, receiving bids Nov. 15 for about $1,664,500 cu.yd. ditches and 737,500 cu.yd. levee. Morgan Engineering Co., 608-14 Goodwyn Institute Bldg., Memphis, Engr. Noted Sept. 21.

Tenn., Brownsville—Drainage—Haywood County making plans, Mud Creek Dist., 1,700 acres, about $12,000. Ferree & McCleskey Engr.

Tenn., Dyersburg—Drainage—Bogota Drainage Dist. of Dyer and Obion Counties, Court House, receiving bids Nov. 28 for 8-mi. ditch.

Ill., Quincy—Drainage—Hunt and Lima Drainage Dist. made plans for reclaiming 30,000 acres. About $500,000. E. T. Perkins Engineering Co., Quincy, Engr. Noted Sept. 14.

Iowa, Carroll—Drain—Carroll County making plans for Drain No. 77. About $25,000.

Iowa, Sac City—Drainage—Sac County soon receives bids for work Goose Pond Drainage Dist. J. H. Mayne, Merriam Blk., Council Bluffs, Engr.

Minn., Elbow Lake—Ditch—Grant and Tranverse Counties receiving bids about Jan. 15 for Judicial Ditch No. 6, about 250,000 cu.yd. C. M. Nelson, Elbow Lake, County Audr.

Minn., Montevideo—Ditch—Chippewa County receiving bids Nov. 4 for Ditch No. 25, about 9,850-ft. of 19- to 18-in. tile. Address County Clk., Montevideo.

Minn., Moorhead—Ditch—Clay County lets contract Ditch No. 40 about Dec. 1. A. O. Houglum, Audr.

Minn., Moorhead—Ditch—Clay County to let contract Ditch Nos. 41 and 42 about Jan. 1. A. O. Houglum, Audr.

Minn., New Ulm—Ditch—Brown County receiving bids Nov. 6 for County Ditch No. 30, about $11,659. L. G. Vogel, New Ulm, County Audr.

Kan., Kansas City—Drainage—Kaw Valley Drainage Dist. of Wyandotte County receiving bids Nov. 8, about 6,650-ft. levee requiring about 42,230 cu.yd. embankment. P. J. Broll, 719 Osage Ave., Secy. Noted Oct. 12.

S. D., Flandreau—Drainage—Lake and Moody Counties plan joint drainage ditch to drain about 2,500 acres. About $93,000. Address County Clk., Flandreau.

N. D., Fargo—Ditch—Cass County let contract Osgood Drain No. 21, 115,000 cu.yd. land work, about Dec. 16; Davenport Drainage Project, 600,000 cu.yd. floater work and 1,030,000-cu.yd. dry land work about Jan. 1. W. A. Tucker, Fargo, Audr.

N. D., Wahpeton—Ditch—Richland County lets contract Ditch No. 24 about Dec. 1. F. A. Burton, Wahpeton, County Audr.

Mo., Butler—Drainage—Bates County receiving bids Nov. 6, about 150,000 yd. J. A. Flaming, Butler, Engr.

Mo., Kahoka—Drainage—Gregory Drainage Dist. receiving bids Nov. 9 for 6¼-mi. levee, including 257,000 cu.yd. levee best fitted for dragline machines, 4,400 cu.yd. muck ditch under levee, 12,600 cu.yd. levee work best fitted for scraper work or hydraulic dredge and 27 acres clearing and grubbing. J. P. Foley, Gregory Landing, Secy. E. T. Perkins Engineering Co., Engr. Noted Oct. 5.

Tex., Liberty—Drainage—Raymond Dist. sold $70,000 bonds. Noted Mar. 9.

Utah, Salt Lake City—Canal—Utah Copper Co. plans, about 7 mi.

Wash., Ellensburg—Irrigation—Kittitas County Reclamation Dist. granted option on $5,000,000 bond issue to syndicate headed by Twohy Bros., Spokane. Syndicate plans to build entire canal project to irrigate about 90,000 acres. J. R. Holman and R. H. Thomson, Engr.

Calif., Santa Rosa—Drainage—Bellevue-Wilfred Drainage Dist. voted $20,900 bonds. Noted June 1.

Calif., Tracy—Irrigation—West Side Irrigation Dist. plans election to vote on $195,000 bonds for canals. Noted May 11.

Bids In and Contracts Awarded

Mass., Boston—(South Boston)—Dredging—Comrs. on Waterways and Pub. Lands, 40 Central St., Boston, received low bid dredging 4,500 cu.yd. Boston Harbor from Bay State Dredging and Contracting Co., 247 Atlantic Ave., about 47c. per yd.

N. C., Greensboro—Drainage—Guilford County let contract draining about 24 mi. dredge ditches in Broad River Drainage Dist. to THOMPSON & MOSELEY, INC., Greensboro.

S. C., Charleston—Dredging—City let contract to L. T. GAYLORD, 13 Park Row, New York, 12.97c. per cu.yd.

Ga., Savannah—Canal—County to extend Casey Canal to Savannah River by day labor. About $50,000 available. E. R. Conant, Savannah, Ch. Engr. Noted Sept. 14.

Ohio, Troy—(Official)—Ditch—County let contract to W. BARNHART, West Milton.

Ohio, Urbana—Ditch—Champaign County let contract Stephenson Ditch, Adams Township, to WEHINGER BROS., Wapakoneta.

Ill., Carlyle—Drainage—Santa Fe Levee and Drainage Dist. No. 2 let contract excavation to B. KIFFERMEYRE.

Ill., Chenoa—Ditch—Golden Rule Drainage Dist. let contract to C. FOSNAUGH, about $14,991.

Ill., Paxton—Ditch—Ford County let contract enlarging and cleaning out ditch to LEWIS & MEECE, Atwood, 12c. per cu.yd. Noted Sept. 28.

Minn., Eveleth—Drainage—Oliver Mining Co. let contract drainage system to L. McCANN CO., Eveleth, about $125,000.

Minn., Moorhead—(Official)—Ditches—Clay County let contract Ditches Nos. 26, 27 and 38 to KING & EICHMILLER, Frazee, about $15 464. Noted Oct. 5.

Minn., Moorhead—Ditch—Clay County let contract Ditch No. 39 to NORTHERN DREDGE AND DOCK CO., Duluth. Noted Oct. 5.

Ark., Newport—Drainage—Comrs. Mayberry Slough Drainage and Levee Dist. let contract drainage Village Creek Basin to D. WEST, about $210,000. Noted Apr. 13.

Calif., Long Beach—(Official)—Drainage—Signal Hill Drainage Dist. let contract to J. KENNEDY, 901 Washington Bldg., Los Angeles, about $84,936. Noted Sept. 28.

MISCELLANEOUS

Proposed Work

Mass., Longwood—(Boston post office)—Recreation Building—Noble and Greenough School plans. J. L. Little, Arch.

N. Y., Albany—Parks—State Election Nov. 7 to vote on $10,000,000 bonds for increasing area of State Parks, namely Adirondack and Catskill Parks of Forest Preserve and Palisades Interstate Park, Proposition No. 1.

N. Y., Esperance—Elimination of Grade Crossing—Delaware & Hudson Co. plans, near Schoharie Junction. J. MacMartin, Albany, Ch. Engr.

N. Y., Oswego—Subway—City plans, under tracks of New York Central and Ontario & Western Ry. tracks. J. F. Flanigan, City Engr.

N. Y., Rochester—Retaining Wall—City making preliminary plans, concrete, Johnson and Seymour Dam. About $140,000. E. T. Elwood, City Engr. E. A. Fisher, City Hall, Consult. Engr.

N. Y., Syracuse—Recreation Grounds and Park Improvements—Council voted $19,000 bonds. H. A. Allen, City Engr.

N. Y., Syracuse—Bathhouse—Council voted $10,000 bonds, Burnet Park swimming pool. H. A. Allen, City Engr. Noted Aug. 10.

Penn., Philadelphia—Turntable—Philadelphia & Reading Ry. plans, Tulip St. engine yards, superstructure to be of rein.-con. S. Wagner, Readi... Terminal, Philadelphia, Engr.

Penn., Pittsburgh—Pavilion—Park Comrs. plan Hunting Park. Council to be asked to appro... priate $100,000.

Va., Abington—Elimination of Grade Crossin... —Norfolk & Western Ry. plans. J. E. Crawford, Roanoke, Ch. Engr.

W. Va., Fairmont—Fire Station—City elect... Dec. 15 to vote on $8,000 bonds. A. Bowen, Mayor.

La., New Orleans—Aquarium—City plans, West End Park. W. J. Hardee, City Engr.

Ohio, Cleveland—Fire Station—Council passed ordinance authorizing bond issue for fire station on Carnegie Ave. J. E. Gtanger, Fire Ch. Noted Oct. 12.

Ohio, Columbus—Flood Protection—Conservancy Bd. adopted flood protection plan of Alvord & Burdick. Noted Sept. 21.

Ohio, Elyria—Undercut—New York Central R.R. Lines West of Buffalo, plans Winckles St. About $190,000. 65% to be borne by railroad, 35% to be divided between city and Green Car line. G. C. Cleveland, St. Clair Ave. and West 3rd St., Ch. Engr.

Ohio, Lima—River Improvements—City receiving bids Nov. 20 for purchase of bonds for improving Ottawa River. D. L. Rupert Audr. C. H. Bryson, City Engr. Noted Oct. 26.

Ohio, Proctorville—(Official)—Grand Stand—City receiving bids Nov. 4, Fair Grounds. A. C. Robinson, Member Bldg. Com. Noted Oct. 5.

Ohio, Youngstown—Comfort Stations—Council passed ordinance appropriating $7,000. F. M. Lillie, City Engr. Noted Aug. 24.

Ohio, Zanesville—Revetment—Council passed ordinance for concrete revetment along Licking River. C. Spencer, City Engr.

Ind., Ft. Wayne—Subway—New York Central R.R., Lines West of Buffalo, plans, Sherman St. About $26,000, $20,000 to be borne by railroad and $6,000 by city. G. C. Cleveland, St. Clair Ave. and West 3rd St., Cleveland, Ch. Engr. F. M. Randall, City Engr.

Ind., Indianapolis—Pools—Council plans artificial swimming pools. C. Viebahn, City Recreation Comr.

Mich., Bay City—Street Flusher—Council rejected bids. To be readvertised. H. C. Thompson, City Engr.

Mich., Boyne City—Playgrounds—City election Nov. 7 to vote on $6,000 bonds.

Mich., Detroit—Subway—J. L. Hudson Co. plans, 300-ft. steel across Farmer St. and Library Park Ave. R. H. Webber, Woodward and Gratiot Ave., Pres. Smith, Hinchman & Grylls, Washington Arcade Bldg., Engr.

Ill., Hillsboro—Subway—Bd. Pub. Utilities petitioned to build subway over tracks of Cleveland, Cincinnati, Chicago & St. Louis Ry. on School St. C. A. Paquette, Cincinnati, Ch. Engr.

Ill., Maywood—Elimination of Grade Crossings—Chicago & Northwestern R.R. plans, Bellwood and Melrose Park. About $2,000,000. W. H. Finley, Jackson Blvd. and Franklin St., Chicago, Ch. Engr.

Wis., Madison—Park Improvements—Madison Park and Pleasure Drive Assoc. plans to improve Henry Vilas Park, about $84,842.

Minn., Minneapolis—Elimination of Grade Crossings—St. Anthony Commercial Club interested in project to eliminate all crossings of Great Northern and Northern Pacific Rys. About $500,000. F. H. Smith, Secy.

Wis., Monroe—Swimming Pool—City plans election in spring to vote on $10,000 bonds.

Minn., Bemidji—Park—State Bd. Investigation granted city $25,000 for park. T. Swinson, City Engr.

Neb., Omaha—Flood Prevention—County plans flood prevention by building 2 storage reservoirs to catch flood waters of Indian Creek. Address County Clk., Omaha.

N. D., Mandan—Block Signal System—Northern Pacific Ry. plans, between Mandan and Glendive, Mont. W. L. Darling, St. Paul, Ch. Engr.

Mo., Jefferson City—Retaining Wall—Council adopted resolution for retaining wall on Monroe St. P. C. Hardin, City Engr.

Mo., Kansas City—Flood Prevention—City plans flood prevention dike along south bank of river from Grand Ave. to Blue River Bluff. About $576,024. C. Hill, City Engr.

Mo., Kansas City—Comfort Stations—City plans, about $40,000 available. C. Hill, City Engr.

Mo., St. Louis—Subway and Elevated Railway—A. Hooke, Dir. Pub. Utilities, submitted report for plan to elevate tracks of Hodiamont St. car line from Vandeventer Ave. and Morgan St. to Hodiamont and Maple Ave. Plans also include concrete walls for elevated railway and subway under Morgan and Franklin Ave. to connect with railway at Vandeventer Ave. About $600,000. E. R. Kinsey, Pres. Bd. Pub. Ser.

Tex., Palestine—Levee Work—Anderson County Levee Dist. No. 1, voted $32,500 bonds. Address County Clk., Palestine.

Okla., Sapulpa—Fire Station—City plans, about $5,000. R. A. Jenness, City Clk.

Miscellaneous (Continued)

Wash., Seattle—King County plans to spend about $1,250,000 for road and bridge work next year. A. P. Denton, Seattle, County Engr.

Wash., Seattle—Market—Frye Packing Co. making plans, 2-story, east side 1st Ave. About $60,000.

Calif., Longbeach—Pier—City defeated $500,000 bonds, Pine and American Ave. A. de Ring, City Engr. Noted Sept. 28.

Calif., Long Beach—Harbor Improvements—City voted $300,000 bonds. Noted May 11.

Man., Brandon—Curling Rink—Brandon Curling Club plans.

Que., Sherbrooke—Fire Station—City plans. About $25,000. E. C. Gatlen, Secy.

N. B., St. John—Pipe—City soon receives bids for about 3,000 ft. of 29-in. c.-l. pipe. About $30,000. R. W. Wigmore, Comr.

Md., Baltimore—Fill—State Rds. Comn., Garrett Bldg., receiving bids Nov. 14 for about 55,000 cu.yd. fill over Sinepuxent Bay between State Rd. and Ocean City, Contract No. No-16, Worcester County.

Bids In and Contracts Awarded

Mass., Boston—(Dorchester)—Grading and Seawall—City let contract, Savin Hill Beach, to H. NAWN CONTRACTING CO. 82 Savin St., Roxbury, about $102,890.

Mass., Boston—(South Boston)—Wharf Etc.—Edison Electric Illuminating Co., 39 Boylston St., let contract extension wharf and bulkhead to W. L. MILLER CO., 171 Alford St., Charleston, about $40,000.

Mass., Fall River—Coal Pocket—Staples Coal Co., 29 Bedford St., let contract to CHASE & BOOTH, INC., Davol St., about $15,000.

Mass., Revere—Fire Station—Low bidders, 2-story, were MacDonald & Griffin Co., 161 Summer St., Boston, $13,465 and J. Cyr & Son Lawrence, $13,664. Noted Oct. 5.

Mass., Rutland—Recreation House—Rutland Private Sanitarium let contract to L. ROCHEFORD & SON, Worcester, about $9,000.

N. Y., New York—(Brooklyn)—(Official)—Pub. Ser. Comn. let contract concrete track floors and platforms over mezzanines of 11 stations on Culver Rapid Transit R.R. between 37th St. and 10th Ave. and intersection of Gravesend Ave. and Ave. X to SNARE & TRIEST, 233 Broadway, New York, about $52,654. Noted Oct. 26.

N. Y., New York—(Brooklyn)—Shed—J. H Mankin Building Material Co., Broadway and Myrtle Ave., let contract to F. WEBER & SONS, 192 Woodbine St., about $20,000.

N. Y., Syracuse—(Official)—Race Track—New York State Fair Comn. let contract to J. YOUNG, Syracuse, about $75,486. Noted Oct. 19.

N. Y., Syracuse—(Official)—Removal of Grand Stand—New York State Fair Comn. let contract to WARSAW CONSTRUCTION CO., INC., Warsaw, $3,971. Noted Oct. 19.

N. J., Longport—(Official)—Seawall—Borough Comrs. received bids from Sutton & Corson Co., $560,139; E. L. Bader, $569,030; J. Ferry & Sons, $583,997. Noted Oct. 19.

N. J., Trenton—Channel Improvements—Pennsylvania R.R. let contract to A. McMULLEN CO., Singer Bldg., New York, about $100,000.

Penn., Connellsville—Engine House—Baltimore & Ohio Railroad Co. let contract to G. B. SWIFT CO., 189 West Madison Ave., Chicago, about $15,000.

Penn., Pittsburgh—Retaining Wall—City let contract, Mountford Ave., to NORTH SIDE CONSTRUCTION CO., Gretto St., N. S., about $4,325. Noted Oct. 5.

Penn., Pittsburgh—Tunnel—County let contract tunnel under sidewalk of new city-county building Grant, Diamond and Ross St. and 4th Ave. to T. McNALLY CO., Oliver Bldg., about $6,351.

Penn., Roaring Branch—Dike—County received bids along Lycoming Creek from A. A. Bennett, $6,945 and J. Sanders, $7,900.

La., Hagaman—Levee Work—City let contract to DONOVAN & DALEY, Lake Providence, about $8,190.

La., Lake Providence—Levee—Tensas Parish let contract to F. T. CONSTANT.

La., New Orleans—Levee Work—State Bd. Engrs. received low bids as follows: Buck Hall, Bossier Parish, 61,000 cu.yd. new levee, W. M. Rushing, 15.70c.; Dixie Levee, Caddo Parish, 16,000 cu.yd. J. M. Montgomery, 16.80c.; Atchafalya Basin Levee, H. Hedburg, 32c.

Ohio, Cleveland—Elimination of Grade Crossings—New York, Chicago & St. Louis R.R. let contract between Fulton Rd. and Detroit Ave. to WALSH CONSTRUCTION CO., 1116 Citizens Bldg., about $2,900,000. Noted Sept. 9.

Ohio, Lima—Fire Station—City let contract to J. LEU, Lima, about $16,000. Noted July 13.

Ohio, Portsmouth—Earth Removal—City received low bid removal of 10,000 cu.yd. earth from slip known as Damarin Hill from G. White. Noted Oct. 5.

Ind., Evansville—Engine House—City let contract addition to Engine House No. 9 to J. BIPPUS & SON, Builders' Exchange, about $6,000.

Ind., Indianapolis—Flood Prevention—City let contract flood prevention work on Fall Creek to AMERICAN CONSTRUCTION CO., about $113,300. Noted Oct. 12.

Ind., Indianapolis—Train Sheds, Etc.—Union Stockyards, Chicago, to build train sheds, loading and icing platforms, ice-crusher building, etc., by day labor.

Wis., Milwaukee—Sprinkler System—O. R. Piper let contract to GLOBE AUTOMATIC SPRINKLER CO., Chicago.

Iowa, Harlan—River Improvements—Shelby County let contract straightening 6 mi. Nishnabotna River to LANA CONSTRUCTION CO., Council Bluffs.

Minn., Duluth—Dock—Duluth, Missabe & Northern Ry. let contract ore dock to BARNETT RECORD CO., Lyceum Bldg., Duluth, about $109,000. Noted Aug. 10.

S. D., Sioux Falls—Fire Station—City let contract to SIOUX FALLS CONSTRUCTION CO., Sioux Falls, about $12,362.

Tex., Clarksville—Levee—Red River County Impvt. Dist. No. 1 let contract 350,000 cu.yd. levee along Sulphur River to H. J. COX & CO., Alexandria.

Tex., Hamlin—Dam—City let contract rein.-con. dam over California Creek to W. D. HENDERSON, Sweetwater, about $31,400. Noted Sept. 28.

Tex., Houston—(Official)—Fire Station—City to build by city forces. L. O. Andrews, Fire Comr. Noted Oct. 12.

Tex., Orange—(Official)—Wharf and Bulkhead—City received bids from W. Moore & Son, Texas City, $40,703; Spence & Howe Construction Co., Port Arthur, $45,147; J. Jacobson, Texas City, $45,573. Noted Oct. 12.

Calif., Salinas—Bank Protection—Monterey County let contract along Salinas River to MIDLAND BRIDGE CO., St. Louis, about $10,000.

Calif., San Francisco—Sea Wall—State Bd. Harbor Comrs. let contract between Jones and High St. to BLAKE BROS., Oakland, about $66,150. Noted Oct. 26.

Que., Montreal—Head Gates—City let contract, Lachine Canal, to T. O. SULLIVAN, 47 St. Louis Sq., about $100,000. Noted June 8.

BUILDINGS

Proposed Work

Other items relative to Building Construction will be found under the following headings: "Industrial Works," "Federal Government Work" and "Miscellaneous."

Mass., Boston—Theater, Store and Lodge Building—Orient Heights Amusement Co. making plans. About $100,000. Edward F. Tirell, 44 Bromfield St., Arch.

Mass., Cambridge—Bank—National Bank making plans. William L. Mowll, 185 Devonshire St., Boston, Arch.

Mass., Lowell—Lowell General Hospital receiving bids Nov. 7 for 2-story, 40x180-ft. building on Varnum Ave. About $125,000. Kendall Taylor & Co., 93 Federal St., Boston. Noted Sept. 7.

Mass., Lowell—High School—City making plans for addition. About $400,000. Henry L. Rourke, Hildreth Bldg., Lowell, Arch.

Mass., Maynard—Grammar School—Bd. Education plans 2-story. About $55,000.

Conn., Bridgeport—City making plans public welfare building at Washington and Madison Ave. About $100,000. Leonard Asheim, Bridgeport, Arch.

N. Y., Albany—Hotel—Kenmore Hotel, 76 North Pearl St., making plans, 5-story. About $50,000. J. S. Shattuck, 2 North Pearl St., Arch.

N. Y., Ft. Edward—Church—St. Joseph's Congregation making plans, 2½-story. About $60,000. M. L. and H. G Emery, Bible House, New York, Arch. Noted Oct. 26.

N. Y., New York—(Brooklyn)—L. H. Pounds, Borough Pres., Room 2, Borough Hall, receiving bids Nov. 15 for foundations and superstructures in connection with south or Flatbush Ave. wing of Central Library building, Prospect Park Plaza between Flatbush Ave. and Eastern Pkway.

N. Y., New York—(Bronx)—(Official)—School—C. B. J. Snyder, Supt. School Bldgs., Dept. Education, 59th St. and Park Ave., Manhattan, receiving bids, brick, Prospect Ave. and Jennings St., Bronx.

N. Y., New York—Manhattan—Hospital—Bd. Trustees Bellevue Hospital receiving bids Nov. 10 for additions. John W. Brannan, Pres.

N. Y., New York—(Official)—(Manhattan)—Bradish Johnson Estate, 39 Courtland St., receiving bids, 16-story, 624x195-ft. loft building. About $450,000. Maynicke & Francke, 25 East 26th St., Manhattan, Arch.

N. Y., New York—(Official)—(Manhattan)—Consolidated Gas Co., 130 East 15th St., making plans 2-story, brick, rein.-con. building.

N. Y., New York—(Official)—(Manhattan)—Synagogue—William Fischman of Jewish Center, Inc., 220 5th Ave., receiving bids, 4-story, 66x100-ft. About $150,000. L. A. Abramson, 220 5th Ave., Manhattan.

N. Y., New York—Brooklyn—(Official)—Goodwin & Starrett, 8 West 40th St., Manhattan, receiving bids for 22-story, 58x100-ft. office building, at Court and Remson St. About $500,000. Starrett & Van Vleck, 8 West 40th St., Arch.

N. Y., New York—Manhattan—(Official)—Theater—E. Rush, 1482 Broadway, receiving bids, 1-story, 75x100-ft., 148 West 48th St. About $75,000. P. Pereira, 220 West 42d St., Arch.

N. Y., New York—Manhattan—(Official)—City receiving bids for dormitory, 2-story, 57x134 ft., Randalls Island. About $90,000. D. Baker, 101 Park Ave., Arch.

N. Y., New York—Manhattan—(Official)—National Cloak and Suit Co., 7th Ave., 24th to 25th St., plans extending building.

N. Y., Scarsdale—(Official)—Clubhouse—Sunningdale Country Club, Mt. Vernon, receiving bids, 1½-story. About $60,000. Robert D. Kohn, 56 West 45th St., Arch.

N. J., Bradley Beach—Bank and Building—First National Bank revising plans, 4-story. About $50,000. Mowbray & Uffinger, 56 Liberty St., Manhattan, Arch.

N. J., Exeter—Gymnasium and Swimming Pool—Phillips Exeter Academy soon lets contract, 10-story, 80x100-ft. About $100,000. F. A. Colby, 15 East 40th St., New York, Arch. Noted Oct. 19.

N. J., Nutley—School—Bd. Education receiving bids Nov. 9, 2-story, on Bloomfield Ave. About $40,000. Conklin & Convery, 665 Broad St., Newark. Noted Aug. 17.

Penn., Coraopolis—High School—Bd. Education making plans. About $100,000. F. MacCrooks, Century Bldg., Pittsburgh, Arch. Noted Sept. 7.

Penn., Erie—Club—Kwakiva Club revising plans, 2½-story. About $75,000. Clark Wright, Evans Coal Exchange Bldg., Arch.

Penn., Philadelphia—Dormitory—City making plans 5 buildings, 1-, 2- and 3-story. About $150,000. Philip H. Johnson, Land Title Bldg., Arch.

Penn., Philadelphia—Home for Feeble-Minded making plans for 5 buildings, stone and concrete. Philip H. Johnson, Arch.

Penn., Reinerton—School—City making revised plans, 2-story, brick. Hauer & Mowers, Lebanon, Arch.

Penn., Rochester—Hospital—Rochester General Hospital making plans, 3-story addition. About $50,000. F. I. Merrick, Empire Bldg., Pittsburgh, Arch. Noted Sept. 28.

Penn., Wilkes-Barre—Parish House—St. Stephens Episcopal Church made plans, 3-story, 80x140-ft. About $100,000. Noted July 27.

Penn., York—School—School Bd. soon lets contract. About $80,000.

D. C., Washington—Municipal Lodging House—City plans, 5-story. About $40,000. Snowden Ashford, Dist Bldg., Arch.

D. C., Washington—Theater—Garden Moving Picture Theater, 423 9th St., making plans. About $500,000. A. P. Clark, Jr., 814 14th St., Arch.

Va., Hampton—High School—City plans 3-story. About $50,000. J. W. Hopo, Pres. School Bd.

Va., Newport News—Masonic Temple—F. & A. M. making plans, 4-story, 122x49 ft. About $40,000. Ferguson, Calrow & Wrenn, Virginia Bank Bldg., Norfolk, Arch.

W. Va., Clarksburg—Church—Methodist Protestant Church plans. About $40,000.

W. Va., Huntington—Hospital—St. Francis Hospital Association receiving bids Nov. 10, 3-story. About $200,000. Meanor & Sweeney, Arch.

S. C., Greenville—Hospital—City voted $100,000 bonds. W. F. B. Haynsworth, City Engr. Noted Sept. 21.

La., Bogalusa—Schools—See item under "Water-Works."

Tenn., Clarksville—Church—First Baptist Church soon lets contract. About $50,000. John Galsford, Goodwyn Institute Bldg., Memphis. Noted Oct. 12.

Ky., Bowling Green—City making plans for city and county hospital. About $50,000.

Ky., Louisville—Church—First Church of Christ plans 3rd St. and Ormsby Ave. About $90,000.

Ohio, Bedford—School—Town election Nov. 7 to vote on $50,000 bonds. Ella F. Senter, Clk., Bd. Education.

Ohio, Chillicothe—Memorial Hall and Armory—Ohio National Guard receiving bids Dec. 1, 2-story, 70x200-ft. About $65,000. Fred Elliott, Chamber of Commerce Bldg., Columbus, Arch. Noted June 1.

Ohio, Columbus—Dormitory—Franklin County Children's Home soon receives bids. W. H. Tremaine, Arch. Noted Oct. 5.

Ohio, Columbus—Fraternity House—Charles A. Insco, Arch., 1209 Brunson Bldg., made plans, 3-story.

Ohio, Dayton—School—Bd. Education receiving bids Nov. 16, Whittier School, in Edgemont, Dayton. E. H. Herr, Pres.

Ohio, Dayton—Bd. Education receiving bids Nov. 16 for Cleveland School, Ohmer Park. Albert Pretzinger and Albert P. Muzzelman, 1155-1162 Reibold Bldg., Archs.

Ohio, Lakewood—Church—Lakewood Baptist Church making plans, Lincoln and Detroit St. J. W. C. Gorbueir, 309 Lennox Bldg., Cleveland Arch.

Buildings (Continued)

Ohio, Lebanon—High School—Village School Dist. voted $60,000 bonds.

Ohio, Lebanon—Lebanon University plans 2-story building. About $150,000.

Ohio, Middletown—Temple—Hamilton Lodge No. 39, Knights of Phythias, plans, on North 2nd St. About $65,000.

Ohio, Somerset—Grade and High School—Bd. Education making plans, 2-story, 150x80-ft. About $40,000. Rusk & Sheets, 608 Brunson Bldg., Columbus, Arch.

Ohio, Warrensville—School—Beehive Bd. Education receiving bids Nov. 20. About $43,000. Guy W. Shurmer, Clk., A. W. Rust Co., 8451 Broadway, Cleveland, Arch. Noted Sept. 28.

Ohio, Weston—School—School Bd. receiving bids Dec. 1 for 3-story, 104x75-ft. About $45,000. S. P. Stewart & Son, Bowling Green, Arch. Noted Oct. 12.

Ind., Ft. Wayne—Lodge—Knights of Columbus making plans, 3-story, 92x150-ft. About $60,000. C. Weatherhogg, Hamilton National Bank, Arch. Noted July 6.

Ind., Gary—First Reformed Church made plans for building, 5th and Pierce St. About $50,000. J. M. Johnson, Pastor. Noted Oct. 19.

Ind., Indianapolis—High School—Bd. School Comrs. receiving bids Nov. 14 for $150,000 bonds. Noted June 8.

Ind., Terre Haute—School—Bd. Education making plans, 2-story, 78x150-ft. About $70,000. Johnson & Miller, 105 South 7th St., Arch.

Mich., Midland—(Official)—Donor Dow Chemical Co. receiving bids No. 5 for 2-story community building. About $50,000. Cowles & Mutsheller, 114 Washington St., Saginaw, Arch. Noted Oct. 5.

Ill., Danville—Bank and Office Building—First National Bank receiving bids Dec. 15, 10- and 12-story. About $150,000. Noted Mar. 9.

Ill., McLeansboro—High and Grade School—Bd. Education making plans, 2- or 3-story. About $40,000. R. G. Kirsch, 4067 Magnolia Ave., St. Louis, Mo., Arch.

Ill., Manteno—High School—Manteno Township making plans.

Ill., Oak Park—Willis S. Herrick, Pres. State Bank of Oak Park, will construct buildings at Oak Park Ave. About $100,000.

Wis., Beloit—City to make plans for city hall. G. E. Heebink, City Engr.

Wis., Pewaukee—High School—Bd. Education soon receives bids, 2-story. About $42,000. Van Ryan & DeGalleke, Caswell Blk., Milwaukee, Arch. Noted Oct. 26.

Wis., Madison—Y. M. C. A. plans building. About $150,000.

Wis., Manitowoc—Schools—City election Nov. 7 on $50,000 bonds. Rich Oestrich, Clk.

Wis., Marinette—Y. M. C. A. plans building.

Iowa, Havelock—(Official)—School—Consolidated School Dist. receiving bids Nov. 25, 2-story, 62x152-ft. About $55,000. Martin & Hoskins, Storm Lake, Arch. Noted Oct. 5.

Iowa, Rolfe—School—Bd. Education receiving bids Nov. 9, 2-story, 63x153-ft. About $70,000. G. L. Lockhart, Endicott Bldg., St. Paul, Minn., Arch. Noted Sept. 28.

Minn., Argyle—High School—City voted $42,000 bonds for remodeling.

Minn., Comfrey—High School—School Dist. No. 49 voted $45,000 bonds.

Minn., Comfrey—Church—Scandinavian Lutheran Church making plans. About $45,000. Henry Gerlack, Mankato, Arch.

Minn., Minneapolis—Y. M. C. A.—Long-Lamoreaux & Long, 830 Hennepin Ave. will make plans, 125x160-ft., 8-stories.

Minn., Red Wing—School—School Dist. Nos. 3, 4 and 18 voted $40,000 bonds. L. C. Meyer, City Clk.

Kan., Augusta—Hospital—Roman Catholic Congregation making plans. About $10,000. Markgrad & Mampe, Arch. Noted Oct. 12.

Kan., Neodesha—High School—Bd. Education plans. About $100,000.

Kan., Newton—School—Bd. Education receiving bids Dec. 1 for 2-story, 90x130-ft. About $60,000. Greenbaum & Hardy, 216 Scarritt Bldg., Kansas City, Mo., Arch. Noted Oct. 26.

Kan., Wichita—Jail—County Comrs. soon to receive bids, 6-story, 40x90-ft., brick, steel and rein.-con. About $100,000. Rose & Peterson, Barker Bl., Kansas City, Arch. Noted Oct. 5.

Neb., Beatrice—Hospital—German Lutheran Hospital Association making plans. About $50,000 or $75,000.

Neb., Plattsmouth—School—Bd. Education to vote Nov. 7 on additional bond issue, 2-story, 64x120 ft. About $65,000. Berlinghoff & Davis, Security Mutual Life Bldg., Lincoln, Arch. Noted July 20.

Mo., St. Joseph—Church—First Christian Congregation receiving bids in November, 2-story, 75x110-ft., 10th and Faaraon St. About $80,000. Walter Boschen, Tootle Lemon Bank Bldg., Arch. Noted Sept. 28.

Tex., Amarillo—School—City plans. About $50,000.

Tex., Beaumont—W. C. Tyrell and J. Cook retained W. F. Steinman & Son, Beaumont, to make plans for 10-story, rein.-con. office building. About $200,000.

Tex., Mineral Wells—Hotel—Lizzie More soon to let contract 3-story addition. H. Leinbach, 1105 Southwestern Life Bldg., Dallas, Arch.

Tex., Port Arthur—Stone & Webster Engineering Corporation plans office building on Austin St.

Tex., Refugio—Courthouse—Refugio County to vote Nov. 25 on $75,000 bonds. Noted Oct. 5.

Tex., San Antonio—High School—City made plans, on Main Ave. About $100,000. Ralph H. Cameron, Arch.

Tex., Temple—Home for Aged—Eastern Star plans. About $100,000. Mrs. E. B. Lewellen, Grand Chaplain.

Tex., Tyler—School—City soon votes on $85,000 bonds for improvements.

Tex., Waco—Hotel—C. C. McBurnett making plans. About $150,000. George Burnett Co., Cameron Bldg., Arch.

Tex., Waxahachie—High School—City voted $120,000 bonds. Noted Sept. 7.

Colo., Pueblo—Auditorium and City Hall—Council receiving bids Dec. 1. About $220,000. W. W. Stickney, 89 Opera Blk., Arch. Noted Oct. 19.

N. M., Clovis—High School—City making plans. About $75,000. Noted Oct. 12.

Idaho, Twin Falls—(Official)—City to vote Nov. 28 on $40,000 bonds for building. Noted Oct. 12.

Calif., Los Angeles—Arcade—J. Langeman and Estes & Arnold, 1105 Trust and Savings Bldg., making preliminary plans, 322x40-ft. on Broadway and Hill St. About $50 000.

Calif., Modesto—High School—City voted $135,000 bonds. Noted Sept. 28.

Calif., Richmond—Herbert F. Brown, 2232 Macdonald Ave. plans 3-story brick and steel building at 23rd St. and Macdonald Ave.

Calif., San Diego—Hospital—Sisters of Mercy plans. About $75,000.

Calif., Stockton—Orphan Home—Odd Fellows Lodge plans. About $60,000.

N. S., Halifax—School—Bd. School Comrs. soon receive bids, Morris St. About $125,000. W. J. Busch, 60 Bedford Rd., Arch. Noted June 29.

Que., Lauzon—Home—Home for Infants and Aged to rebuild. About $50,000.

Ont., Normandin—Church—Parish of Normandin making plans. About $125,000. J. P. Ouellett, 28 Famille St., Quebec.

Ont., Trenton—High School—City voted $50,000 bonds. H. Mayhew, Chmn. School Bd.

Bids In and Contracts Awarded

Maine, York Harbor—Hotel—F. D. Marshall, 120 Exchange Pl., Portland, let contract 4-story, 40x50-ft. addition to McDONALD & JOSLIN CO., 161 Devonshire St., Boston, Mass. About $120,000. Noted Sept. 28.

N. H., Nashua—Amoskeag Realty Co. let contract 3-story, 70x153-ft. building on Main St. to F. X. LAFLAME, 189 Belmont St. Noted Oct. 5.

Mass., Bourne—County Infirmary—Barnstable County rejected bids.

Mass., Haverhill—School—City let contract to JOHN M. ROCHE, 467 Primrose St. About $100,000. Noted Oct. 19.

Mass., Medway—School—City let contract to EASTERN CONSTRUCTION CO., Woonsocket, R. I.

Conn., Bristol—School—City let contract 2-story, 35x129-ft. addition to LEWIS A. MILLER, Meriden. About $43 634. Noted Sept. 28.

N. Y., Gloversville—School—Bd. Education rejected bids, 3-story, 65x120-ft. Harvey Van Voris, Clk. Bd. Education. Noted June 1.

N. J., Atlantic City—Church—Chelsea Baptist Church let contract 2-story, 65x90-ft., to FRANK J. PEDRICK, 8 South Baton Rouge Ave. About $40,000.

N. J., Jersey City—Club House—Cartaret Social Club let contract to WILLIAM ROBERTSON & SON, 15 Exchange Pl., Jersey City. About $125,000.

N. J., Woodbury—Club House—Altwood Country Club let contract, 2-story, to GEORGE W. SHAUER & SONS. Noted Oct. 19.

Penn., Connellsville—Freight Station—Pennsylvania R.R. let contract to DAVID T. RIFFLE, Pittsburgh.

Penn., Philadelphia—Carson College for Girls, Chestnut Hill, has let contract 4 buildings to JACOB MYERS SONS CO. About $350,000.

Ky., Louisville—School—Baptist Women's Union Missionary Training School let contract to ALFRED STRUCK CO. About $150,000.

Ohio, Cleveland—Hotel—Perkins Building Co. let contract, 6-story, 65x152-ft., to WILLIAM L. CAREY. About $180,000.

Ohio, Cleveland—School—Bd. Education let contract, 869 East 146th St., to JAMES H. WELLS, 401 Marshall Bldg. About $181,000.

Ohio, Kenmore—(Official)—High School—Bd. Education let contract, 2-story, to DRUMMOND-MILLER CO., Cleveland. About $78,960. Noted Oct. 5.

Ohio, Wilmington—Motion Picture House—Charles Murphy let contract to N. P. EVELAND, Miamiville. About $50,000.

Ind., Terre Haute—School—Bd. Trustees Indiana State Normal School let contract 3-story, concrete and brick, to A. W. STOOLMAN, Champaign, Ill. About $82,180. Noted Oct. 5.

Mich., St. Clair Heights—School—City let contract Kerwin and Warren St. to PIGOTT-HEALY CONSTRUCTION CO.

Mich., Romeo—Church—Methodist Episcopal Congregation let contract to E. H. CRAMER, Logansport, Ind.

Contracts To Be Let

Bids received until Nov. 6, 1916.

Bridge Approaches

Tulsa, Okla.

Sealed proposals will be received by the Board of County Commissioners of Tulsa County, Oklahoma, on Monday, November 6th, 1916, until 10 o'clock A.M., in the County Court House, for the construction of approaches to the Arkansas River Bridge No. 150.

Maps, plans, specifications and estimates may be seen at the office of the County Engineer at the Court House in Tulsa, Oklahoma. No bids will be received unless accompanied by a certified check for the sum of Ten (10) per cent. of the bid, and made payable to the Board of County Comissioners of Tulsa County, Oklahoma.

The successful bidder will be required to give bond for the faithful completion of the work. The Board of County Commissioners reserve the right to reject any and all bids.

By order of the Board of County Commissioners, this 2nd day of October, 1916.

LEWIS CLINE, County Clerk.

Sub-Contract Wanted

If you are looking for just the right kind of a sub-contractor for your Southern work, write us. Roads, bridges, etc. Must fill in our dull season. W655—Eng. News.

U. S. ENGINEER OFFICE, Room 707, Army Building, 39 Whitehall Street, New York, N. Y.—Sealed proposals will be received here until 12 M., Nov. 28, 1916, and then opened, for dredging in Newtown Creek, N. Y. Further information on application.

LOCKKEEPERS' HOUSES—U. S. Engineer Office, Wheeling, W. Va.—Sealed proposals will be received here until 11 a.m. (Eastern time), November 28, 1916, and then opened, for constructing two two-story, fourteen-room double houses, or four bungalow type houses, at Dam No. 21, Ohio River. Information on application.

U. S. ENGINEER OFFICE, First District, New York City, Room 710 Army Building, October 25, 1916.—Sealed proposals for Dredging in Hudson River Channel, N. Y., will be received here until 12 M., November 24, 1916, and then opened. Further information on application.

U. S. ENGINEER OFFICE, Louisville, Ky.—Sealed proposals for furnishing and erecting upper and lower mitering lock gates of two leaves each for Lock No. 41, Ohio River, will be received here until 12 noon, central time, November 6, 1916, and then opened. Information on application.

OFFICE OF THE COMMISSIONERS, D. C., November 1, 1916.—Sealed Proposals will be received at this office, Room 509 District Building, until 2 o'clock P.M. on November 28, 1916, for the construction of Sewers in the District of Columbia, involving the construction of approximately 8,200 linear feet of masonry sewers, 4' 6" span. Forms of proposals, specifications and necessary information may be obtained from the Chief Clerk, Engineer Department, Room 427 District Building, Washington, D. C. OLIVER P. NEWMAN, LOUIS BROWNLOW, CHARLES W. KUTZ, Commissioners, D. C.